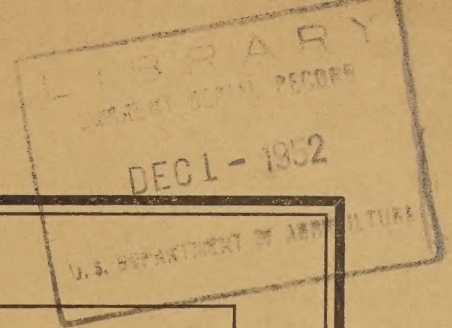


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UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU

UNITED STATES
METEOROLOGICAL
YEARBOOK
1943-1949



UNITED STATES DEPARTMENT OF COMMERCE

CHARLES SAWYER, *Secretary*

WEATHER BUREAU

F. W. REICHELDERFER, *Chief*

UNITED STATES METEOROLOGICAL YEARBOOK 1943-1949



Issued as the Report of the Chief of the Weather Bureau
Prior to 1935

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FOREWORD

Tables similar to those included in this Yearbook were published in the U. S. Meteorological Yearbooks for the years 1935 through 1942 and in the Annual Reports of the Chief of the Weather Bureau for preceding years. Beginning in 1950 these tables are published in the annual issue of Climatological Data, National Summary. Table numbers correspond to those used in the 1942 Yearbook.

Data similar to those presented in Tables 1 to 4, 6 to 9, 12, 12a and 16 in the 1942 Yearbook may generally be found in the December issue of the Monthly Weather Review, the annual issue of Climatological Data, National Summary or in monthly and annual Station Meteorological Summaries.

This is the final issue of the U. S. Meteorological Yearbook.

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TORNADO DATA

Table 5

YEAR 1943

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
ALABAMA										
1. April 12	2:00 a.m.	Marion	E	(1)	200	4	60	\$500,000	0	Business section of Hackleburg destroyed.
2. April 12	3:00 a.m.	Cullman	E	10	200	2	14	100,000	0	Occurred at Vinemont.
3. May 11	7:00 a.m.	Dallas to Tallapoosa	NE	75	100-300	0	1	102,500	0	Reached ground only occasionally; from Selma to Alexander City.
ARIZONA										
(None reported)										
ARKANSAS										
(None reported)										
CALIFORNIA										
(None reported)										
COLORADO										
(None reported)										
CONNECTICUT										
(None reported)										
DELAWARE										
(None reported)										
DIST. OF COLUMBIA										
1. May 21	3:05 p.m.	Washington, D.C.	E			0	0			A definite funnel cloud formed and its revolving motion seen. Appeared to reach ground. A second pendant cloud formed after about 3 to 5 minutes.
FLORIDA										
1. February 6	2:15 p.m.	Duval	ESE	1/2	(2)	0	0	300	0	Fences blown down around open air theatre.
GEORGIA										
1. January 17	4:00 p.m.	Clay	NE	(1)	(2)	0	0	1,000		Damage chiefly to local farm section where several storage buildings blown over, room of one home torn away, and a number of trees and fences blown down.
2. January 17	8:00 p.m.	Randolph	E		50	1	3/50	50,000		Church and school destroyed; gymnasium unroofed; many other small buildings destroyed or badly damaged. Communication and power lines blown down. Most damage at Graves Station.
3. January 18	Early a.m.	Troup	E			0	0	500		Several houses blown down and other minor damage. Cloud apparently dipped to earth within very small area and quickly lifted again from earth.
4. January 18	7:40 a.m.	Troup	E	4	880	0	Several	20,000		Storm occurred chiefly in Gabbettville Community where a number of homes and smaller buildings badly damaged; also, power and communication lines blown down.
5. January 18	5:00 a.m.	Pike	NE		100	5	7	99,500	\$500	Nine houses completely destroyed and four badly damaged. Much damage to barns, garages, chicken houses, etc. Fertilizer warehouse blown down with contents scattered and ruined. Cotton bales scattered in all directions. Seven families lost all household effects. Several head of livestock killed or injured.
6. January 18	5:30 a.m.	Spalding	ENE		100-400	0	Several	150,000		Continuation of #5 storm. Roof of large mill badly damaged, exposing valuable machinery; plants suspended operations temporarily. Ten houses, a school, and a mill tower damaged. Telephone and power services disrupted.
IDAHO										
(None reported)										

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1943

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
ILLINOIS										
1. May 15	9:30 p.m.	Hancock	NE	20	1,760	0	0	\$10,000		
2. May 15	10:00 p.m.	Carroll	NE	1/6	35	0	0	1,000		
INDIANA										
1. March 19	2:15 p.m.	Harrison	NE		400	0	2	10,000		Occurred at Laconia.
2. May 14	8:30 p.m.	Knox	NE		50	0	0	1,000		Occurred south of Bicknell.
3. July 6	2:00 p.m.	Parke	SE		50	0	0	600		
4. July 29	7:00 p.m.	Clark	E	7	70	0	7	800,000		Struck Charlestown.
IOWA										
1. March 15	3:00 p.m.	Pottawattamie	NE	1/2	100	0	0	(4)		Storm remained aloft; damage mostly to wires.
2. March 15	4:10 p.m.	Madison and Polk	NE-E	30	200	0	1	10,000		Storm in rural area; lifted frequently.
3. March 15	5:30 p.m.	Decatur and Lucas	NE	12	100	0	0	20,000		Storm in rural area; lifted at times.
4. March 15	6:00 p.m.	Marshall	NE	5	100	0	0	5,000		Storm mostly aloft; damage on one farm.
5. March 15	7:15 p.m.	Buchanan	NE	3/8	200	0	6	250,000		Struck Independence; damage in area 6 blocks long and 2 blocks wide.
6. March 15	9:00 p.m.	Jackson	NE			0	0	5,000		Damage on 2 farms near Andrew.
7. May 5	3:00 p.m.	Cass	NE	3	100	0	2	10,000		Struck at Griswold.
8. May 5	3:00 p.m.	Cass	NE	6	100	0	0	30,000		Storm track divided near Lewis.
9. May 5	3:25 p.m.	Fremont	NE	18	3,000	0	4	50,000		Storm track not continuous; width of path varied between 1/4 and 2 miles. Struck Sidney and near Imogene and Anderson.
10. May 5	3:30 p.m.	Mills	NE	10	800	0	2	25,000		Storm in rural area.
11. May 5	4:00 p.m.	Cass	NE	8	100	0	0	35,000		Path crossed those of #8. May have been redevelopment of #9 or #10.
12. May 5	5:00 p.m.	Story, Marshall, and Grundy	NE	28	3,000	0	0	20,000		Storm lifted frequently. May have been redevelopment of #9. In direct line between #9 and #12. Wind caused damage in Adair County, but no funnel observed.
13. May 5	6:00 p.m.	Fayette	NE	6	1,500	0	0	2,000		Most damage on one farm; storm not fully developed.
14. May 5	6:30 p.m.	Clayton	E			0	0	6,000		
15. May 5	7:30 p.m.	Marshall	NE-E	20	800	0	2	5,000		Path of storm crossed that of #12 as it turned eastward.
16. May 15	3:00 p.m.	Fremont and Montgomery	NE	50	3,000	0	1	25,000		Storm traveled aloft along nearly two-thirds of its path.
17. May 15	5:30 p.m.	Adams and Union	NE	20	500	0	0	50,000		Greatest damage in rural area near Creston.
18. May 15	5:30 p.m.	Adair	NNE	15		0	0	20,000		Damage near Tingley, Hopeville, and Osceola.
19. May 15	5:30 p.m.	Ringgold and Clarke	NE	30	1,600	0	0	125,000		
20. May 15	5:30 p.m.	Clarke	NE	5		0	0	(5)		Damage in rural area included in that of #19.
21. May 15	5:40 p.m.	Decatur and Clarke	NE	20	1,600	0	0	20,000		Struck in rural area near Van Wert, Weldon, and Woodburn. May have redeveloped as #24.
22. May 15	6:00 p.m.	Dallas	N	5	(2)	0	0	15,000		Struck one mile west of Waukee.
23. May 15	6:20 p.m.	Polk	N	5	800	0	0	5,000		Struck in suburban area just north of Des Moines city limits and Johnston Station.
24. May 15	6:20 p.m.	Marion	NE	20	500	0	0	50,000		Heaviest loss between Newbern and Melcher, after which storm frequently lifted.
25. May 15	7:45 p.m.	Johnson	NE	(1)	(2)	0	0	5,000		Most damage on one farm near Oxford.
26. May 15	8:00 p.m.	Johnson	NE	1	300	0	0	10,000		Struck in rural area. Most damage on 2 farms.
27. June 11	4:30 p.m.	Winnebago	N	9	100	0	0	12,000		Greatest damage 4 miles west of Lake Mill.
28. June 14	8:15 p.m.	Sac	NE	4	100	0	0	5,000		Funnel cloud raised and lowered at intervals. Probably redeveloped as #31.
29. June 14	8:30 p.m.	Greene	E	10	1,200	0	0	10,000		Storm struck at Scranton and may have redeveloped north of Jefferson.
30. June 14	9:30 p.m.	Kossuth and Emmet	E	10	1,600	0	0	15,000		Storm not fully developed. May have redeveloped later. See #32.
31. June 14	9:30 p.m.	Kossuth	NE	5	2,000	0	0	5,000		Storm occurred between Lone Rock and Fenton but was not well defined. After it lifted straight wind along same path caused \$28,000 damage at Bancroft.
32. June 14	9:30 p.m.	Kossuth	NE	5	1,500	0	0	10,000		Probably a redevelopment of #28. Between tracks of #28 and #32 wind damage occurred in Pocahontas County. Projected paths

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1943

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
ILLINOIS (Cont'd.)										
32.June 14 (Cont'd.)										
33.July 4	6:30 p.m.	O'Brien, Clay and Buena Vista	SE-E	10	200	0	0	\$3,000		of #30 and #32 intercept at Tintonka where damage occurred as one of the storms redeveloped. Storm moved from near Waterman southeastward to Peterson, thence eastward to Linn Grove, with funnel disappearing frequently.
34.July 4	7:30 p.m.	Pocahantas	SE	(1)	75	0	0	1,500		One barn wrecked. May have been redevelopment of #33 in midst of hailstorm area.
35.July 24	12:30 a.m.	Cass	NE	(1)	100	0	0	5,000		Tornado path at right angles to larger area of straight wind damage. Only one farm hit by tornado.
36.August 11	Evening	Cherokee	SE	20	(2)	0	0	250		Pendant funnel cloud observed from points nearly 10 miles from path but it caused only slight damage in midst of heavy hail loss.
KANSAS										
1. April 11	5:30 p.m.	Kingman	S-SE	7	220	0	0	1,000		Three vortex clouds reported. Originated 5 miles west and 3 miles south of Cunningham.
2. April 22	8:30 p.m.	Linn	E-SE	3	300	0	0	5,000		Originated 2 1/2 miles northeast of La Cygne.
3. May 15	3:20 p.m.	Dickinson and Geary	E-NE	12	50	1	200	278,000		Extended from Chapman into military reservation at Fort Riley.
4. May 15	3:25-4:00 p.m.	Geary, Riley and Wabaunsee	E-NE	28	880	0	0	225,000		Originated just south of Fort Riley. At times 4, 5, and even 6 vortex clouds appeared.
5. May 15	4:10-4:25 p.m.	Wabaunsee and Shawnee	E-NE	23	300	0	0	75,000		Originated 3 miles southwest of Paxico. Five vortex clouds seen.
6. May 15	Late afternoon	Waubunsee	E	6	100	0	0	(4)		Originated 8 miles west of Alma.
7. May 15	5:20 p.m.	Osage	NE	12	(2)	0	0	4,500		Originated near Peterton.
8. May 15	6:00-7:00 p.m.	Woodson and Neosho	E-NE	22	167	0	0	50,000		Originated 6 miles east of Toronto.
9. June 15	5:00 a.m.	Coffey				0	0			Occurred east of Gridley. Vortex cloud did not reach ground.
10.June 15	6:00 p.m.	Saline	E	2	1,760	0	0	310,000		Struck Kipp where practically every building was damaged.
11.June 15	Late afternoon	Rush				0	0	3,500		Occurred 9 miles south southeast of Nekoma.
12.June 15	8:00 p.m.	Morris	E	22	440-880	0	0	13,000		Originated just east of Herington Air Base.
13.June 15	9:00 p.m.	Osage	E	2	220	0	0	200		Occurred north of Lyndon.
14.June 16	6:00 a.m.	Franklin	NE	7	150	0	1	5,000		Occurred 5 miles south of Ottawa.
KENTUCKY										
(None reported)										
LOUISIANA										
1. May 10	6:30 p.m.	Acadia	N		100	0	0	25,000	\$1,000	At Mermentau greatest single loss of \$10,000 to rice mill and rice stored therein.
2. November 6	9:15 p.m.	Avoyelles	NE		1,000	0	0	100,000		About 50 buildings, mostly farmhouses and barns, destroyed at Marksville.
3. November 6	10:30 p.m.	Vermilion	NE	3	880	3	11	50,000		At Maurice and Abbeville several houses demolished. Several head of cattle killed when barn collapsed.
4. November 6	1:15 a.m.	Washington and Tangiparhoa	NE	2	440	0	2	50,000		About 25 buildings demolished leaving 100 persons homeless at Mt. Herman.
5. November 7	7:10 a.m.	Plaquemines				2	3	(5)		Occurred at Homeplace.
MAINE										
(None reported)										
MARYLAND										
1. April 13	7:00 p.m.	Wicomico	NE	1/2	200	0	0	200		Occurred at Salisbury.
2. November 8	5:53 p.m.	Montgomery	N	1	25-50	0	0	6,000		Occurred northwest of downtown Washington, D. C.
3. November 8	8:30 p.m.	Prince Georges	NNE	8	25-66	0	0	14,000		Occurred 10 miles southeast of downtown Washington, D. C.
MASSACHUSETTS										
(None reported)										

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1943

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
MICHIGAN										
1. May 31	Afternoon	Ottawa	NE	(1)	(2)	0	2	(4)		Occurred at Coopersville.
2. May 31	4:00 p.m.	Kent	NE	(1)	440	0	0	(4)		Occurred at Kent City.
3. May 31	Afternoon	Mecosta	NE	(1)	(2)	0	0	(4)		Occurred at Morley. Storms #1, 2, 3 were probably the same storm in southwest-northeast line.
4. May 31	8:00 p.m.	Ingham		(1)	(2)	0	0	(4)		Occurred at Packard, southwest of Lansing.
5. June 1	8:50 p.m.	Clinton and Shiawassee	E	25	440	0	10	\$600,000		One of the most destructive tornadoes in Michigan history; varying intervals of damage except eastern 5-mile stretch where path was continuous. Most damage to farm buildings (265 destroyed). Remarkable feature was that no persons were killed or seriously injured.
6. June 16	Evening	Shiawassee	E	2	(2)	0	4	10,000	\$10,000	
MINNESOTA										
1. June 25-26	11:00 p.m.-4:30 a.m.	Big Stone, Traverse, Ottertail, and Crow Wing	E	3	50	0	0	35,000		Farm buildings and 2 automobiles wrecked. Struck in sparsely settled country. Many trees uprooted, some livestock killed. Path not continuous.
2. July 18	1:40-4:00 p.m.	Pipestone, Lyon, Redwood, and Faribault	SE	120		0	0	97,500		Farm buildings, airport hangar wrecked; houses damaged; many trees uprooted; poles, wires downed. Path not continuous.
3. July 31	4:30 p.m.	Mahnomen and Itaska	NE		(2)	0	0	30,000		One house, several barns and outbuildings wrecked; many trees uprooted, some livestock killed. Path not continuous.
4. July 31	7:05 p.m.	Wadena	ENE	4	100	0	0	(4)		Haystacks and grain shocks scattered. Corn badly lodged.
5. July 31	8:00-11:45 p.m.	Pope, Douglas, Kandiyohi, and Redwood	SE	110		1	1	120,000		Many barns, outbuildings, several houses, radio tower and grandstand wrecked; many buildings, grain elevator and railroad depot damaged. Some livestock and much poultry perished; haystacks and grain shocks shattered. Path not continuous.
6. August 22	5:45 p.m.	Clay	SE	10	880	0	0	10,000		Some farm buildings wrecked; six box cars unroofed; haystacks and grain shocks scattered.
7. August 22	10:50 p.m.	Brown	SE	(1)	(2)	0	0	35,000		A number of barns, outbuilding, night club and automobile wrecked; farm machinery damaged; 2 horses killed.
8. September 5	2:30 p.m.	Cottonwood and Brown	ENE	25	220	0	0	100,000		Many barns, outbuildings, garages, silos and windmills wrecked; poles and wires downed; many trees uprooted; grain shocks and haystacks shattered. Path not continuous.
MISSISSIPPI										
1. March 18	4:46 p.m.	Walthall	NE		18	0	0	2,050		Rotating cloud did not reach ground.
2. June 23	2:30 p.m.	Hinds	SW	0	0	0	0	0		
3. November 6	4:30 p.m.	Pike	N			0	0	(5)		Historical church demolished; several head of cattle killed. At Redwood. Damage to school buildings.
4. November 6	5:00 p.m.	Carroll	NE	15	500	2	8	(5)		
5. November 6	9:00 p.m.	Claiborne	NE	12	150	0	0	(5)		
6. November 6	7:45 p.m.	Warren	NE	2	330	0	1	5,000		
MISSOURI										
1. March 15	6:15 p.m.	Grundy	NE		440	0	0	15,000		About 60 homes damaged.
2. March 16	3:00 p.m.	Gentry	NE	(1)	440	0	0	3,000		Several small buildings damaged.
3. May 15	8:30 p.m.	Morgan	NE	20		4	5	7,500		Hail accompanied storm.
4. October 30	5:00 p.m.	McDonald, Barry, and Lawrence	NE	50	100-400	0	0	3/51,000	4,000	
5. November 1	4:00 p.m.	McDonald	NE	(1)	50	0	3	4,000		A small tornado rose and dipped several times.
MONTANA										
1. June 10	12:30 p.m.	Sheridan	E		67	0	0	2,050		Damage to barn, granary, chicken coop and combine at Westby.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1943

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
NEBRASKA										
1. June 9	6:00 p.m.	Box Butte	E		170	2	1	\$30,000		In sparsely settled area.
2. October 30	Late afternoon	Lancaster		5-6	400	0	0	4,000		
NEVADA										
(None reported)										
NEW HAMPSHIRE										
(None reported)										
NEW JERSEY										
(None reported)										
NEW MEXICO										
(None reported)										
NEW YORK										
(None reported)										
NORTH CAROLINA										
(None reported)										
NORTH DAKOTA										
(None reported)										
OHIO										
1. April 27	7:30-8:00 p.m.	Sandusky, Seneca, and Huron	E	50	50-450	1	14	275,000		Infection, possibly
2. April 27	8:00 p.m.	Medina and Summit	NE	20		0	100	2,000,000		dam-
3. April 27	8:10 p.m.	Medina	E	25	100	2	0	200,000		
4. April 27	8:25-8:40 p.m.	Cuyahoga	E	14	100	0	100	1,000,000		epa
5. April 27	Evening	Montgomery and Clarke	E	15		0	0	15,000		
6. May 17	4:30 a.m.	Wyandot and Seneca	NE	30		0	0	25,000		
7. July 21	9:00 p.m.	Van Wert	E	(1)		0	0	(5)		About 6 barns and several other buildings wrecked near Van Wert.
8. July 21		Paulding		(1)		0	0	(5)		Several barns destroyed near Payne.
9. August 12	5:30 p.m.	Defiance	E	6	100	0	0	100,000		
10. August 13	7:00 p.m.	Erie		(1)	500	1	2	(5)		Near Vermilion 2 homes destroyed.
11. August 13	8:30 p.m.	Cuyahoga		1/4	100	0	0	20,000		Most damage occurred near Olmstead Falls.
12. August 13	8:50 p.m.	Trumbull	E	1/4	100	1	28	60,000		At Leavittsburg 6 buildings destroyed and 42 houses damaged.
13. August 13	9:00 p.m.	Stark	E	10		1	34	1,000,000		In Canton and vicinity 47 buildings destroyed and about 350 damaged.
OKLAHOMA										
1. April 8	10:30 a.m.	Bryan	NE	1	100	0	2	(5)		Two buildings destroyed and several houses unroofed.
2. April 11	2:00 p.m.	LeFlore	NE	1 1/2	100	1	10	20,000	\$5,000	Occurred at Poteau.
3. May 10	4:00 a.m.	Bryan	N	1		0	0	1,000		
4. May 15	6:26 p.m.	Mayes	NE	4	25	1	8	600		Struck ground at intervals.
5. May 30	9:30 p.m.	Woods	NE	5-10	0	0	0	0	0	Cloud 150-300 feet aloft.
6. June 3	10:30 a.m.	Cotton	ENW	3	50	2	5	24,000	4,000	
7. June 20	11:00 p.m.	Harper	SW	6-8	7,000	0	0	8,600		
8. July 24		Ellis						0		A small tornado.
OREGON										
(None reported)										
PENNSYLVANIA										
1. July 29	5:30 p.m.	Venango	SE	3	334	0	2	45,000		Buildings, homes and automobiles damaged at Oil City.
2. July 29	1:00 p.m.	Venango	NNE		50	0	0	(5)		Barn flattened, trees and gardens damaged at Pleasantville.
3. October 16	6:00 p.m.	Wayne and Pike	NE	8	150	0	0	(5)		In Lake Wallenpaupack section building unroofed and cabins damaged.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1943

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
RHODE ISLAND										
(None reported)										
SOUTH CAROLINA										
(None reported)										
SOUTH DAKOTA										
1. June 13	6:50 p.m.	Haakon	NE	10	1,760	1	2	\$9,000	(4)	Small buildings wrecked. Damaged buildings and machinery.
2. June 13	9:00 p.m.	Hyde	NE	8	3,520	0	2	10,000		
3. June 14	8:09 p.m.	Lyman	NE	10	7,040	0	0	2,000		
4. September 2	5:30 p.m.	Miner	NE	15	100	0	0	1,200		
TENNESSEE										
1. June 14	12:30 a.m.	Obion	W	1/4	400-500	0	5	4,600	\$400	Occurred on Kentucky-Tennessee State line at Woodland Mills. Occurred at Kenton. Occurred at Red Boiling Springs.
2. July 25	10:00 p.m.	Obion	NE	1/2		0	0	1,000		
3. August 16	5:38 p.m.	Macon	SE	2	100	0	0	500		
TEXAS										
1. March 5	4:45 p.m.	San Augustine	E	3	440	1	8	500,000		Path of greatest destruction about 200 yards wide. Numbers 2 to 7 were a series of small tornadoes.
2. April 8	6:00 a.m.	McLennan	NE	1	440	0	1	(5)		
3. April 8	6:30 a.m.	Williamson	NE	1	440	0	1	3,500		Damaged several homes and small buildings. Damaged one house and small buildings.
4. April 8	8:45 a.m.	Navarro	NE	10	35	0	0	5,000		
5. April 8	8:50 a.m.	Travis	NE	1	20	0	0	500		Three homes and numerous small buildings damaged. Six or 7 homes destroyed and 12 damaged.
6. April 8	9:00 a.m.	Ellis	NE	8	100	0	0	(5)		
7. April 8	2:15 p.m.	Grayson	NE	10	100	1	2	(5)		More than 50 oil derricks blown down.
8. May 7	7:30 a.m.	Wise	NE	(1)	880	0	0	10,000	2,000	
9. May 10	9:30 a.m.	Kaufman and Hunt	NE	50	1,760	0	2	10,000		
10. May 10	11:00 a.m.	Madison	NE	(1)	(2)	0	0	2,000		
11. May 10	12:50 p.m.	Rush	NE	25	(2)	4	25	1,000,000		Damage only to utility poles. Damage to small farm buildings. At Freeport 250 homes and business buildings damaged or destroyed. Several hundred persons received minor injuries at Galveston.
12. May 29	4:35 p.m.	Tampa	NE	(1)	(2)	0	0	(4)		
13. July 8	7:30 p.m.	Harris		(1)	(2)	1	0	(5)		
14. August 3	4:25 p.m.	Taylor	N			0	0	350		
15. August 13	4:30 p.m.	Oldham	NE	12	65	0	0	(5)		
16. November 6	5:50 p.m.	Brazoria	NE	5	400	2	36	450,000		
17. November 6	8:00 p.m.	Galveston	NE	5	100-900	5	33	150,000		
UTAH										
(None reported)										
VERMONT										
(None reported)										
VIRGINIA										
(None reported)										
WASHINGTON										
(None reported)										
WEST VIRGINIA										
(None reported)										
WISCONSIN										
(None reported)										
WYOMING										
1. June 10	Afternoon	Campbell				0	0	(5)		Occurred at Rocky Point. Approximately 750 acres of pine forest destroyed. One windmill and 1/2-mile fence destroyed at Dull Center.
2. June 13	Afternoon	Weston		8	1,320	0	0	2,000		
3. June 21	5:15 p.m.	Converse	SW	4	440	0	0	(5)		

See reference notes at end of table.

TORNADO DATA

Table 5

YEAR 1944

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
ALABAMA										
1. March 6	10 a.m.	Calhoun	NE	5	170	2	35	\$100,000		Struck in Jacksonville.
2. March 6	2:15 p.m.	Mobile	NE	3/8	100	0	0	400		
3. March 6	3 p.m.	Blount and Marshall	NE	10	100	2	16	30,000		
4. March 6	4 p.m.	Crenshaw and Pike	ENE	18	100	1	12	350,000		Moved from Luverne to Troy; spread out at Troy with tornadic nature not well defined. Damage at Luverne \$250,000; at Troy, \$100,000; all killed and injured at Luverne.
5. April 11	8 a.m.	Walker		(1)		0	0	50,000		
6. April 11	11 a.m.	Talladega	NE	15	400	2	20	100,000		
ARIZONA										
(None reported)										
ARKANSAS										
1. April 10	6:50 p.m.	Columbia	NE	3	50	0	64	50,000		Occurred 1 mile north of Magnolia. Occurred in Camden.
2. April 10	7:30 p.m.	Ouachita	NE	2	150	1	35	150,000		
3. April 10	8:20 p.m.	Dallas	NE		300	0	2	7,200		Occurred near Pine Bluff.
4. April 10	6:30 p.m.	Dallas	NE		50	0	3	(5)		
5. April 10	9:30 p.m.	Jefferson	NE		100	3	30	50,000		
6. April 10	10:30 p.m.	Arkansas	NE	1	200	3	6	16,000		Occurred near Cascoe. Occurred near Shiloh and Duncan.
7. April 10	10:45 p.m.	Arkansas	NE		100	3	4	(5)		
8. April 10	10:50 p.m.	Monroe	NE	18	200	14	35	100,000		
9. April 10	11:23 p.m.	St. Francis	NE		200	5	40	50,000		Most damage in Cross County.
10. April 10	11:45 p.m.	Cross and Crittenden	NE	10	200	4	21	42,500		
11. April 10	6 p.m.	Montgomery	NE	12	300	0	1	10,000		Several houses destroyed. Occurred near and in Harrison.
12. April 10	5:30 p.m.	Boone	NE		200	1	15	25,000		
13. April 10	9:30 p.m.	Pulaski	NE		300	5	28	20,000		Storm touched ground at intervals.
14. April 14	6:45 p.m.	Cleburne	NE		300	0	3	10,000		
15. April 14	7:30 p.m.	Independence	NE		100	1	4	75,000		
16. April 14	8 p.m.	Randolph and Sharp	NE	30		0	4	35,000		
CALIFORNIA										
1. November 11	9 p.m.	Los Angeles	NE	1½	50	0	0	50,000		Trees uprooted and barns destroyed.
COLORADO										
(None reported)										
CONNECTICUT										
(None reported)										
DELAWARE										
*1. June 23	Midnight	Sussex	SE	8	75-880	0	0	(4)		From Cambridge, Maryland to Del Mar, Delaware several window panes blown out, several trees, some chimneys and some fences blown down, and some roofing torn off at Del Mar.
DIST. OF COLUMBIA										
(None reported)										
FLORIDA										
1. March 11	9:30 p.m.	Polk	NE	1	150	0	0	5,000		Occurred at Agricola. Occurred at Welcome.
2. March 11	10 p.m.	Polk	NE	6	150	0	0	5,000		
3. August 15	4:15 p.m.	Pasco	N	3		0	0	(4)		Occurred at San Antonio and St. Joseph. In advance of hurricane. Occurred at Wauchula. In advance of hurricane. Occurred at Arcadia.
4. October 18	Afternoon	Polk				0	0	(4)		
5. October 18	Afternoon	Hardie				0	0	(4)		
6. October 18	Afternoon	De Soto				0	0	(4)		
GEORGIA										
1. February 9	5 a.m.	Lamar	NE	2	100	0	1	20,000		At Barnesville 3 houses demolished and considerable damage to buildings, trees and communication lines. Many small buildings destroyed, including 6,800 chicken hatchery; 15 homes damaged. Greatest damage in Forsyth County. Forty or more homes destroyed, 150 damaged, 250 small buildings destroyed, 200 damaged. Destruction mostly in Toccoa where school unroofed. Two houses destroyed, 34 damaged.
2. February 25	8:30 p.m.	Cherokee, Forsyth and Dawson	ENE	10	100-400	0	0	30,000		
3. April 11	2-2:30 p.m.	Cherokee and Forsyth	NE	25-30	100	2	15	500,000		
4. April 11	4:25 p.m.	Stephens	NE	3	440	0	1	60,000		

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1944

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
GEORGIA (Cont'd.)										
5. April 15	11:30 p.m.	Hall	NE	Sever- al	400	0	6	\$20,000		Destruction chiefly in Gainesville; 6 homes destroyed, 14 damaged. Greatest damage at Royston; first struck Franklin Springs then Roys- ton, Nuberg, Bio, Montevideo and Cedar Creek.
6. April 16	A.m.	Franklin and Hart	E	20	200	23	119	1,000,000		
IDAHO										
(None reported)										
ILLINOIS										
*1. June 22	8:45-10 p.m.	Stephenson	SE	18	1,320	2	15	750,000	\$50,000	Four thousand acres of crops de- stroyed.
INDIANA										
1. April 9	6 p.m.	Marion	NE	(1)	25	0	0	5,000		Occurred in Indianapolis.
2. April 14	11:45 p.m.	Vanderburg				0	0	5,000		Occurred in Evansville.
3. April 23	7 p.m.	Lake	NE	20	15	0	0	5,000		Moved into Lake Michigan.
IOWA										
1. May 2	6 p.m.	Cedar	N	(1)	55	0	0	50		Light damage on 3 farms. Entered State from Nebraska.
*2. May 18	2 p.m.	Monona	NE	28	880	0	1	75,000		
3. May 18	4 p.m.	Woodburg and Cherokee	NE	9	220	0	4	20,000		
4. May 18	4:15 p.m.	Crawford and Sac	NE	18	880	0	0	200,000		
5. May 18	Afternoon	Ida	NE	(1)	110	0	0	5,000		Damage mostly on 1 farm.
6. May 18	5:30 p.m.	Pocahontas	NE	12	880	0	0	125,000		
7. May 18	7 p.m.	Greene, Boone, Webster and Hamilton	NE	30	1,760	0	0	70,000		
8. May 18	9:30 p.m.	Dallas	NE	5	(2)	0	0	2,000		
9. May 18	10:30 p.m.	Polk, Story and Marshall	NE	15	880	2	11	125,000		
10. May 19	5:30 p.m.	Pocahontas and Buena Vista	NE, E, S	12	3,520	0	0	100,000		At times several funnels visible.
11. May 19	6 p.m.	Pocahontas	NE	(1)	(2)	0	0	(5)		Damage on 4 farms. Two grain elevators wrecked.
12. May 19	7:30 p.m.	Pocahontas	SE	(1)	440	0	0	50,000		
13. May 19	7:30 p.m.	Webster	NE, E, SE	10	880	1	14	200,000		
14. May 19	Night	Webster	E	(1)	(2)	0	0	10,000		Damage on 1 farm.
15. May 19	Night	Hamilton	E	(1)		0	0	3,000		
16. May 19	Night	Bremer	E	5	(2)	0	0	25,000		
17. June 4	6:30 p.m.	Shelby	NE	5	440	0	0	25,000		
18. June 11	2:50 p.m.	Mills	NW	2	110	0	0	25,000		
19. June 11	6:30 p.m.	Plymouth	NE, NW	2	330	0	0	25,000		Original storm divided into 2 sections.
20. June 16)	7-8:30 p.m.	Sioux	E	8	220-3,520	0	0	1,000,000)		
21. June 16)			NE	4	do	0	0)		
22. June 16)			E	3	do	0	0)		
23. June 16)			NNE	6	do	0	0)		
24. June 16)			ESE	5	do	0	0)		
25. June 16)			SE then E	10	do	0	2)		
26. June 17	12:15 a.m.	O'Brien	NE	(1)	(2)	0	0	(5)		
27. July 14	6:30 p.m.	Kossuth, Han- cock and Winnebago	ESE	25	1,760	0	1	95,000		
28. August 15	12:30 p.m.	Chickasaw	NE	5	55	0	0	4,000		Storm struck in rural areas northwest of Maquoketa. Trav- eled across northern part of town. In open country many farm buildings damaged or de- stroyed. Trees and wires downed.
29. August 17	12:30 a.m.	Jackson	E	5	220	0	0	25,000		
KANSAS										
1. March 3	6 p.m.	Marion	NE	6	50	0	1	1,000		Farm buildings damaged. Same area struck by tornado on August 25, 1941.
*2. April 9	6:45 p.m.	Seward	NW	20	220	0	0	172,000		Originated near Turpin, Okla- homa. Chief damage to ware- houses at Army Air Field, Liberal, Kansas.
*3. April 10	3 a.m.	Labette	N-NE	65	(6)	0	3	97,000		Originated near Nowata, Okla- homa. Buildings in Altamont and Edna and on 150 farms damaged.
4. April 10	4 p.m.	Reno	NW	2	100	0	0	1,100		Farm buildings and implements damaged; 300 chickens killed.
5. April 10	2:40 p.m.	Sedgwick	NW			0	0	0		Vortex cloud 10 miles south- west of Wichita, apparent- ly did not reach ground.
6. April 10	4:15 p.m.	Harvey	N-NW	2	17	0	0	500		Two barns damaged west of Newton.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1944

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
KANSAS (Cont'd.)										
7. April 10	4:05 p.m.	Sedgwick	N			0	0	\$ 0		Vortex clouds 15 miles north of Wichita apparently did not reach ground.
8. April 10	4:15 p.m.	Harvey	N			0	0	0		Vortex cloud visible several miles east of Newton. Not believed to have touched ground.
9. April 29	8:30 p.m.	Clarke and Comanche	NE	6	1	0	0	40,000		Rural buildings demolished and livestock killed.
10. April 29	10:45 p.m.	Pratt	NE	20	110	0	0	15,000		Farm property damaged in vicinities southwest and northeast of Pratt.
11. April 29	8:15 p.m.	Comanche	N-NE	9	440	0	0	10,000		Rural property damaged in vicinity west and north of Protection.
12. April 30	6:30 p.m.	Sumner				0	0	0		Tornado cloud seen 2 miles northeast of Milton. Did not reach ground.
13. May 1	6 p.m.	Clarke and Ford	NE	6	880	0	0	2,000		Accompanied by hail but chief damage to rural property from wind.
14. June 3	5 p.m.	Cloud	NE	2	880	0	0	25,000		Chief damage to buildings at German prisoner of war camp.
15. June 10	5 p.m.	Mitchell and Cloud	NE	32	125	0	1	25,000		Storm path broken. Rural buildings badly damaged. One person blown 150 feet. Injuries not fatal due to bath tub blown upside down over her.
16. June 10	6 p.m.	Washington	NE	1	(2)	0	0	(5)		One farm residence and outbuildings destroyed; heavy tree damaged.
17. June 18	8:15 p.m.	Neosho	E			0	0	(4)		Vortex cloud at western edge of Chanute was not known to have reached ground.
18. June 21	Evening	Cloud	SE	2	33	0	0	700		Damaged barn north of Glasco.
19. June 27	9:30 p.m.	Rice		1	100	0	0	50		Loss confined to damage of trees.
20. July 7	6:26 p.m.	Cloud				0	0	(5)		Occurred in connection with a violent wind and heavy hailstorm.
21. July 8	4 p.m.	Pawnee	N	1/4	300	0	0	600		Occurred 9 miles east of Larned.
22. July 8	5 p.m.	Haskell	E	1	200	0	0	500		Farm buildings damaged.
23. July 22	6 p.m.	Rush	N	1½	880	0	0	1,500		Occurred 5 miles north of Otis in rural area.
24. July 24	7:15 p.m.	Ford	NE			0	0	0		Vortex cloud touched ground only once in wheatfield. Passed over Dodge City airfield.
25. July 28	6 p.m.	Logan	SE	4	100	0	0	0		Path of storm traversed harvested wheatfield north of Oakley.
26. August 16	7 p.m.	Russell	NE	1	(2)	0	0	15,000		Farm buildings and 2 oil derricks blown down. Hail which followed tornado caused little damage.
27. September 27	9 p.m.	Labette	N-NE	15		0	0	73,250		Practically all damage occurred at Kansas Ordnance plant near Parsons; storehouses wrecked and trucks and cars demolished.
KENTUCKY										
(None reported)										
LOUISIANA										
1. February 26		Claiborne				1	Sev- eral	(5)		Five buildings destroyed and 57 damaged.
2. May 30		Webster				2	8	(5)		Occurred near Nine Forks.
MAINE										
(None reported)										
MARYLAND										
*1. June 23	6:30 p.m.	Allegany	SE	1	167	0	0	(4)		House twisted around; some trees and power lines downed at Frostburg.
*2. June 23	8 p.m.	Garrett	SE	6	1,760	3	25	99,000	\$51,000	Ten farmhouses, 28 other buildings, and 19 barns destroyed; loss of orchards in excess of \$50,000, 2 miles north of Oaklane.
3. June 23	9:30 p.m.	Montgomery	SE	13	440	0	0	(5)		Several barns blown down and many large trees uprooted. A 100-foot swath cut through woods near Olney.
*4. June 23	11:15 p.m.	Dorchester	SE	20	880	2	33	1,000,000		A high school cut in 2, 13 homes demolished, 3 warehouses flattened, and 2 large barns leveled at Cambridge. Gasoline station flattened 1 mile southeast of Cambridge.
MASSACHUSETTS										
(None reported)										
MICHIGAN										
(None reported)										

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1944

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
MINNESOTA										
1. June 17	6:30 p.m.	Big Stone	NE	25		0	4	\$200,000	\$50,000	Many farm buildings wrecked or damaged; poles and wires downed; some livestock and poultry killed; many trees uprooted; occurred in Beardsley and Graceville.
MISSISSIPPI (None reported)										
MISSOURI										
1. April 14	5:25-7 p.m.	Ozark and Howell	NE	16	1,320	0	4	(5)		Damaged one residence and several small outbuildings. Near Mountain View, 14 homes, 1 church and 1 school, numerous outbuildings damaged or demolished. Some livestock and poultry killed.
2. April 14	6 p.m.	Texas and Webster	NE		880	0	4	(5)	(4)	Four homes demolished. Ten barns, 75 henhouses and other outbuildings destroyed.
3. October 2	Mid-afternoon	Greene		5	440	0	0	100,000		Some damage due to flooded basements; several residences and greenhouses demolished.
MONTANA										
1. June 16	11 p.m.	Rosebud				0	0	(5)		
NEBRASKA										
1. May 1	7-8 p.m.	Richardson		(1)	(2)	0	0	2,000		Occurred at Falls City.
2. May 18	1:45-2 p.m.	Washington and Burt	N-NE	20	170-500	0	1	174,900	100	Combined damage of storm #2 and #3.
*3. May 18	2 p.m.	Burt	NE		(2)	0	0	0		Damage for this storm reported in storm #2.
4. July 13	4:25 p.m.	Deuel		(1)	30	0	0	0	100	Occurred where little damage could result.
NEVADA (None reported)										
NEW HAMPSHIRE (None reported)										
NEW JERSEY (None reported)										
NEW MEXICO										
1. September 17	7 p.m.	Curry			88	0	0	25,000		Damage to homes and business buildings at Clovis.
NEW YORK (None reported)										
NORTH CAROLINA										
1. April 24	P.m.	Franklin				0	0	23,000		Small tornado reported by county agent.
2. April 24	6 p.m.	Sampson, Wayne, Johnston and Wilson	N			0	8	204,000	21,000	Some damage near Selma.
3. September 29	P.m.	Wilson				0	0	50,000		
NORTH DAKOTA										
1. May 23	6-8 p.m.	McIntosh and Logan	NE	2	50	0	0	40,000		Twenty horses killed; 13 funnels observed.
2. June 17	9 p.m.	Logan and LaMoure	NE	25	40	0	0	16,000	14,000	Ninety farm buildings damaged.
3. July 12	10 p.m.	Kidder	NE	2	25	0	0	5,000	5,000	Trees, buildings and crops damaged.
OHIO										
1. March 4	5 p.m.	Jackson and Gallia	E	10	50	0	0	(5)		Destroyed picnic grove, many apple trees, considerable timber and a number of farm buildings.
2. June 23	Evening	Harrison	E	5		0	0	(5)		Destroyed a number of trees and upset small buildings.
*3. June 23	Late afternoon	Portage, Mahoning and Columbiana	SE	50		0	0	(4)		Crossed into Pennsylvania. Only minor damage at widely scattered points in Ohio. Most damage in Pennsylvania.
OKLAHOMA										
1. January 26	7:35 p.m.	Beckham	NE		660	0	3	(5)		Extensive damage throughout Elk City.
2. January 26	8:30 p.m.	Greer	NE		50	1	5	17,500		
3. January 26	9 p.m.	Custer			33	0	0	12,500		One hundred outbuildings, 30 homes and 100 head of cattle destroyed. Wrecked electric sub-station.
4. January 26	11:05 p.m.	Garfield				0	0	1,500		Damage to barns, etc.
5. January 26		Grady		2		0	0	(5)		One home destroyed.
6. January 26		Lincoln	N			0	3	(5)		One home destroyed.
7. January 26		Carter				1	0	50,000		One home destroyed.
8. January 26-27		Custer				0	2	(5)		One home and Butane plant demolished.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1944

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
OKLAHOMA (Cont'd.)										
9. March 3	7:30 p.m.	Choctaw	NE	50	100	0	35	\$150,000		Thirty-one homes destroyed; 153 damaged.
*10. April 9	6:30 p.m.	Beaver	NE	25	75	0	0	2,250		Crossed into Kansas near Liberal.
11. April 9	6:30 p.m.	Kiowa		5	220	0	3	50,000		Eleven city homes, 3 business houses and cotton-oil mill destroyed. One farm home carried 1/4 mile.
12. April 9	6:30 p.m.	Washita	NNE	14	3	1	10	400,000		
13. April 9	7 p.m.	Lincoln				0	0	(5)		Considerable property damage. House and barn destroyed.
14. April 9	8 p.m.	Custer		45	1,760	0	4	6,000		Homes damaged.
15. April 10	8 a.m.	Creek	NE	10	880	0	0	8,000	\$500	\$500 damage to orchard.
*16. April 10	2:30 p.m.	Craig		16	7/3 1/2	0	0	1,500		Damage mostly to small farm buildings.
17. April 30	2 p.m.	Craig	NE	5	100	0	0	2,000		
18. April 30	6 p.m.	Tulsa	NE		18	0	0	500	250	
19. May 2	8 p.m.	Grady	NE	6	100	0	0	5,000		
20. May 2	7 p.m.	Garfield	NE		70	0	0	1,000		
21. May 26	8 p.m.	Pottawatomie	NW		150	0	2	1,000	25,000	
22. November 25	4:13 p.m.	Tulsa	NE	2	200	0	5	35,000		
OREGON										
(None reported)										
PENNSYLVANIA										
*1. June 23	6:11-7:30 p.m.	Washington, Fayette and Greene	SE	56	167-334	25				Crossed West Virginia, Pennsylvania (west) State line at Independence, Pennsylvania. Crossed Pennsylvania (south) West Virginia State line near Cheathaven at 7:30p.m.
*2. June 23	Early evening	Westmoreland, Allegheny and Somerset	SE	50	167-334	17				Path from Ravenna, Ohio to vicinity Cumberland, Maryland. Major damage from Pittsburgh to Somerset, Pennsylvania.
3. June 23	Early evening	Armstrong, Indiana and Cambria	SE	25	167-334	2	412	2,000,000		Total damage and injuries for storms #1, 2 and 3. Major destruction from 6:30-9:30 p.m. for the 3 tornadoes.
4. August 13	2:15 p.m.	York	NE		(2)	0	0	(5)		Occurred at York.
5. September 28	5:30 p.m.	Bucks	E	6	100	0	0	50,000		
RHODE ISLAND										
(None reported)										
SOUTH CAROLINA										
1. March 6	8 p.m.	Bamberg and Orangeberg	NE	25	500	0	0	10,000		Occurred in Denmark and Norway.
2. April 11	Afternoon	Oconee				1	0	12,000		Occurred in Walhalla.
3. April 16	1-2 a.m.	Anderson, Abbeville, Greenwood and Newberry	E	80	100-500	18	116	300,000		
4. April 27	3 a.m.	Charleston	E		165	0	0	2,000		Occurred on Edisto Island.
SOUTH DAKOTA										
1. July 5	6:15 p.m.	Perkins	E	25		0	3	180,000	\$20,000	Numerous buildings wrecked, several roofs sheared off, some stock killed, crops flattened. Occurred at Lammon.
TENNESSEE										
1. March 26	8 p.m.	Shelby	NE	12	7/5	0	7	3,665,000	335,000	Accompanied by most severe hail damage in history of Memphis.
2. March 26	11 p.m.	Giles	NE	5	25	5	2	4,000		Small tornado wrecked house and barn at Linnville.
3. March 26	11 p.m.	Gibson	E	10	100	0	6	10,000		Two homes destroyed, several unroofed.
4. March 27	1 a.m.	Maury	E	2	50	0	0	5,000		Heavy damage to 2 buildings.
5. April 11	6:30 a.m.	Wilson	NE	4	200	1	11	360,000		Heavy damage to airplanes and farmhouses at Lebanon.
6. April 11	11:30 a.m.	Sullivan	N	1	125	0	0	110,000		Trees uprooted, houses unroofed at Kingsport.
7. April 15	Early morning	Obion				0	0	15,000		Much damage to roofs at Kenton.
8. April 23	6 a.m.	Obion				1	9	55,000		Five houses leveled.
9. June 23	Early morning	Hawkins, Greene and Washington	SE	40	400-800	0	3	260,000		One hundred thirty-five families affected.
TEXAS										
1. April 8	6:30 p.m.	Hamilton	NE	10	7/2 1/2	1	7	1,000,000		Occurred at Pottsville.
2. May 1	4 p.m.	Travis and Williamson	NE	8-10	7/1 1/2	3	8	100,000		Occurred at New Sweden and Hutto.
3. May 20	8:15 p.m.	Knox	SE	3	880	0	0	7,000	25,000	Occurred at Knox City.
4. June 6	A.m.	Uvalde	NE	10-15	1,760	0	1	(5)		Several buildings and windmills damaged.
UTAH										
(None reported)										

See reference notes at end of table.

TORNADO DATA

Table 5--Continued

YEAR 1944

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
VERMONT (None reported)										
VIRGINIA										
1. March 4	4:30 p.m.	Lee	E	12	880	0	32	\$100,000		At Flatwoods houses and 20 barns destroyed.
2. March 4	6:45 p.m.	Washington	E	5	1,760	0	7	500,000		Greatest damage in town of Abingdon.
3. April 24	6 p.m.	Lunenburg and Mecklenburg	NE	10	150	3	6	6,000		Occurred near South Hill.
WASHINGTON (None reported)										
WEST VIRGINIA										
1. June 23	6:30-9:30 p.m.	Harrison, Barber, Upshur, Taylor and Randolph	SE	40	167-334	100	381			
*2. June 23	7-9:30 p.m.	Brooke, Preston and Grant	SE	80	167	0	24			Crossed from Pennsylvania.
3. June 23	11:25 p.m.	Tucker	SE	$\frac{1}{2}$	167	3	25	1,500,000	\$500,000	Total damage for storms #1, 2, and 3.
WISCONSIN										
1. June 4	4 a.m.	Manitowoc	NE	(1)	67	0	0	600		Baby twister at town of Two Rivers.
2. June 18	3:50 p.m.	Portage	E-SE	12	55-1,320	0	3	100,000	5,000	Three houses and 20 barns wrecked. Several head of livestock killed.
*3. June 22	6:30-8 p.m.	Lafayette	SE	36	200-1,760	7	65	1,000,000	23,000	Crossed into Illinois; 25 houses and 61 barns destroyed. Many livestock killed.
4. June 22	9:30 p.m.	Wood	E	20	880	0	0	15,000	25,000	Five barns razed, homes and other barns damaged. A cow and 100 chickens killed.
5. July 23	5-5:15 p.m.	Dane	E	$1\frac{1}{2}$	67	0	1	15,000	5,000	Occurred 7 miles north-northeast of Madison.
WYOMING										
1. May 17	3 p.m.	Converse	SE	8	(2)	0	0	800		Occurred 16 miles south of Douglas.
2. May 17	4 p.m.	Crook	NW	30	300	0	10	12,000		Occurred in northeastern Crook County. Estimate does not include about 750,000 board of standing timber.
3. June 11	6 p.m.	Goshen	SE	10		0	0	(5)		Occurred at Spotted Horse.
4. June 12	3 p.m.	Campbell	NE		100	0	0	1,500		Occurred 17 miles west of Kaycee.
5. August 3	2:45 p.m.	Johnson	E		200	0	0	300		

See reference notes at end of table.

TORNADO DATA

Table 5

YEAR 1945

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
ALABAMA										
*1. February 12	3:40 p.m.	Sumpter	NE	43	150	9	63	\$220,000		Path includes point of origin south of Meridian, Mississippi. Most losses at York and Livingston. Moved along railroad yards of Atlantic Coast Line and thru Chisholm, a suburb of North Montgomery.
2. February 12	4:22 p.m.	Montgomery	NE	13	100	26	293	1,700,000		
3. February 12	5:00 p.m.	Bullock	NE	8	100	0	8	10,000		
4. February 12	5:00 p.m.	Macon	NE	1/2	120	0	2	5,000		
5. February 12	6:30 p.m.	Chilton	NE	(1)	100	1	8	20,000		
6. February 12	7:00 p.m.	Lee	NE	1/2	125	0	1	1,000		
7. February 12	9:05 p.m.	Jefferson	NE	1/2	120	0	1	3,000		
8. February 21	11:30 p.m.	Coosa	NE		150	0	0	7,500		
Cloud dipped twice in path several miles long.										
ARIZONA										
(None reported)										
ARKANSAS										
1. March 6	4:00 a.m.	Garland	NE	1 1/2	1,300	0	0	15,000		Warehouse and several dwellings destroyed near Jessieville. Dwellings unroofed, barns and out-houses destroyed 2 1/2 miles northwest of Berryville. Apparently several tornadoes within area.
2. March 24	9:00 p.m.	Carroll	NE	9	880	0	9	20,000		
3. April 12	7:15 p.m.	Logan, Johnson, Crawford, Madison, Washington, Boone, Newton, Denton, Franklin, Carroll	NE	65	1,760	27	Several hundred	500,000		
CALIFORNIA										
(None reported)										
COLORADO										
(None reported)										
CONNECTICUT										
(None reported)										
DELAWARE										
(None reported)										
DIST. OF COLUMBIA										
(None reported)										
FLORIDA										
1. March 20	10:50 p.m.	Madison	E			0	0	15,000		Loss of buildings, household effects and number of chickens. Tornado accompanied by hail as large as guinea eggs. Tornado hit Brownsville district of Pensacola; destroyed 6 houses and damaged 10 others. A house blown from its foundation; some orange trees uprooted. A transformer blown down from platform at height of about 30 feet. Section of railing on east end of causeway ripped up. Two houses damaged, many trees uprooted. Greatest damage done in what is known as Ike Smith Community, where 13 houses and store were demolished or damaged. Considerable damage done in immediate neighborhood; 24 families homeless.
2. April 18	9:00 p.m.	Volusia				0	0	500	\$500	
3. April 23	1:30 a.m.	Escambia	E	1/4	110	0	0	8,000		
4. June 23	9:00 p.m.	Hendry	NE	1/4	34-67	0	0	2,500	(5)	
5. June 24	2:57 a.m.	Brevard	NE	1	25	0	0	3,500		
6. October 22	6:45 p.m.	Leon	NE	10	35-200	1	4	50,000		
GEORGIA										
1. February 22	2:30 a.m.	Fulton	ENE	10	35-65	1	0	10,000		Storm appeared like "big ball of light", dipping suddenly to earth and skipping about hitting some houses from Union City to Fairburn, with most damage at Fairburn. Several homes completely

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1945

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
GEORGIA (Cont'd.)										
1. February 22 (Cont'd.)										demolished and a number of others damaged; also power and telephone lines down.
2. April 24	10:20 p.m.	Spalding	NE	10	440	7	18	\$150,000		Storm first struck in rural area but most destruction within small area immediately north of Griffin, where damages to textile mill buildings, homes, buildings equipment, etc. of nearby experiment station heavy. Roof of one mill building torn away, exposing valuable weaving machines. One hundred twenty-five foot smoke-stack collapsed, causing much damage to interior equipment.
3. April 24	10:30 p.m.	Newton	NE	6	150	0	7	40,000		Damage near and parallel to highway extending from Porterdale to Covington. Church and 19 homes, including several small buildings, considerable damage. 100 persons homeless.
4. April 24	Late p.m.	Laurens	NE	(1)	(2)	0	0	5,000		Church removed from foundation and heavily damaged. Two brick stores unroofed with considerable damage to contents. Ten homes and a number of smaller buildings damaged. Very small area affected.
5. September 4	10:30-10:35 p.m.	Chatham	NE	(1)	(2)	0	0	200		Very local storm at Savannah beach, showing tornado characteristics but causing little damage. A number of houses strongly shaken but only 3 sustained any damages, chiefly screens blown off, panes broken, etc. Roof of one house blown off as if from explosive effect.
IDAHO										
(None reported)										
ILLINOIS										
*1. April 12	10:20 p.m.	Adams, Hancock, and McDonough	NE	60	660	0	25	2,230,000		Crossed Illinois-Missouri line near Palmyra, Missouri. Path through Quincy, Illinois business section. Other towns suffered losses were Mendon, Lorraine, Plymouth and Industry.
2. June 27	8:00-10:15 p.m.	Rock Island, Henry, and Bureau	E	32	1,760	1	48	1,670,000	\$730,000	Wrecked homes on 25 farms.
3. June 27	11:00 p.m.	La Salle	E	25	1,760	0	46	700,000		Several funnels more or less simultaneously made path of destruction about 8 miles wide.
INDIANA										
1. March 17	3:00 a.m.	Posey, Vanderburg, Warrick, and DuBois	NE	60	880	0	20	1,000,000		Many buildings damaged. Some hail.
2. May 15	1:50 a.m.	Clark	SE		100	0	0	150,000		Occurred at Jeffersonville. Two large buildings destroyed.
3. June 12	11:00 p.m.	Wells	NE	8	33	0	0	1,000		Occurred near Bluffton.
4. June 13	12:30 a.m.	Johnson	NE	11	200	0	0	15,000	5,000	Occurred southeast of Bargersville.
5. July 14	7:00 p.m.	Hancock	SE	1/2	300	0	0	1,000		Occurred in Greenfield.
6. September 22	4:00 p.m.	Vermillion and Fountain	NE		880	0	1	155,000	5,000	Crossed Wabash River.
IOWA										
1. March 16	11:00 p.m.	Hancock and Worth	NE	50		0	0	60,000		About 50 farmsteads damaged. Losses less severe in Worth County.
2. March 24	Late p.m.	Butler and Chickasaw	NNE	30	(2)	0	0	30,000		Twenty-five farmsteads damaged. Some damage in towns of Nashua, Bassett and Alta Vista.
3. April 11	Early p.m.	Jones				0	1	(5)		Local tornado anamosa in connection with widespread thunderstorms and windstorms in eastern Iowa.
4. May 21	Noon to 1:30 p.m.	Fremont, Page, Montgomery, Cass, Madison, and Dallas	NNE	45	800	0	7	120,000	(5)	Apparently several tornadoes near Shenandoah and Imogene. Twin storms about 8 miles apart damaged buildings on about 25 farms.
5. May 21	12:10 p.m.	Black Hawk	NE	4	(2)	0	0	25,000		Damage to about dozen farms between Hudson and Waterloo.
6. May 31	11:50 p.m.	Greene	NE	7	200	0	2	10,000		Six farms damaged.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1945

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
KANSAS										
1. March 24	11:30 a.m.	Johnson	N	(1)	17	0	0	\$2,000		Small residence, telephone and power lines damaged near DeSoto.
2. March 29	12:30 a.m.	Wilson	NE	13	1,760	0	0	25,000		Farm buildings damaged.
3. April 20	3:00 p.m.	Reno				0	0	0		Vortex cloud appeared 14 miles south of Hutchison but did not reach ground.
4. May 6	11:00 p.m.	Jewell	SE	3 1/2	110	0	0	2,000		Rural buildings damaged.
5. May 20	8:30 p.m.	Ellsworth	NE		440	0	1	25,000	\$15,000	Chief damage to farm buildings.
6. May 26	4:00 p.m.	Marshall	NE	5	880	0	0	10,000		Farm homes damaged.
7. May 30	10:00 p.m.	Thomas	NE	18	110	0	0	35,000		Vortex cloud did not reach ground but was close enough to unroof building. A large roof carried 150 feet.
8. May 30	10:00 p.m.	Norton	NE	9	880	0	Sev- eral	10,000	2,000	Path through sparsely settled country.
9. June 9	2:30 p.m.	Shawnee				0	0	0		A small vortex cloud visible southwest of Topeka. Did not strike ground.
10. June 12	7:13 p.m.	Osage				0	0	0		Vortex cloud disappeared without striking ground southwest of Overbrook.
11. June 25	9:00 p.m.	Grant	S	6	5,280	0	0	15,000		Buildings damaged in vicinity of Ulysses and carbon plants in Hickok and Ryus.
12. June 26	7:30 p.m.	Ellsworth	NE	20	3,520	0	0	15,000		Buildings damaged in Ellsworth and adjoining rural areas.
13. June 30	3:30 p.m.	Butler and Cowley	SE			0	0	90,000	20,000	Family of tornadoes in southwest Butler and northwest Cowley Counties. Eight funnels reported.
14. August 17	12:30 a.m.	Reno	E	3	(2)	0	0	5,000	1,000	Principal loss to buildings and trees.
15. September 23	6:30 p.m.	Barber, Pratt, and Reno	SE			0	0	0		Three funnel clouds visible.
16. September 23	6:00 p.m.	Reno				0	0	(4)		Vortex cloud visible above ground at northeast edge of Hutchinson.
17. September 27	1:33 p.m.	Gray and Ford	NE	20	220	0	0	2,000	4,000	Occurred between Enson and Dodge City.
KENTUCKY										
(None reported)										
LOUISIANA										
1. March 30	Early afternoon	Rapides	NE			0	0			
2. March 30	Early afternoon	Grant	NE			0	0			
3. March 30	Early afternoon	Avoyelles	NE			0	0	24,000		Total property damage for storms #1, 2 and 3. High winds entire State. Hail locally in southwest. High tides along coast.
4. April 1	Morning	Vernon and Sabine	NE							
5. April 1	Morning	Sabine	NE			4	Sev- eral	265,000		Total damage for storms #4 and #5. High wind entire State. High tides on coast. Tornadoes in Leesville, Caney, Many and Campbell communities.
6. June 14	1:40 p.m.	Tangipahoa		3/4	400	0	0	40,000		Occurred in Hammond.
MAINE										
1. September 1	6:30 p.m.	Cumberland	SE			0	1	5,000	2,500	Damage confined to 2 farms; roofs blown off, trees uprooted at North Windham.
MARYLAND										
(None reported)										
MASSACHUSETTS										
(None reported)										
MICHIGAN										
(None reported)										
MINNESOTA										
(None reported)										
MISSISSIPPI										
*1. February 12	3:30 p.m.	Lauderdale	ENE	9	440	5	40	(5)		Tornado lifted after striking Jones-Vimville until it reached

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1945

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
MISSISSIPPI (Cont'd.)										
*1. February 12 (Cont'd.)										York, Alabama.
2. March 15	Noon	Jasper			5-1,500	0	0	\$6,000		Damage to miscellaneous property. Two churches, a store and 6 homes destroyed. Other buildings damaged.
3. December 24	8:30 p.m.	Covington		10	50-75	3	Sev- eral	(5)		
MISSOURI										
1. April 12	7:00 p.m.	McDonald	NE	12-14	100-200	1	15	50,000		Struck in Pineville and moved to near Stella, lifting and descending along its course.
2. April 12	7:00 p.m.	Lawrence	NE	8	1,760	1	6	175,000		Struck 9 miles west-southwest of Mt. Vernon.
3. April 12	8:45 p.m.	Polk	NE	3/4	300	4	16	250		Struck at Morrisville.
4. April 12	9:00 p.m.	Taney, Douglas, and Wright	NE	32	100-880	0	12-14	(5)		Struck about 3 miles south of Bradleyville, at Ava and extended into Wright County. It alternately lifted and descended along its path. Buildings and fences damaged.
*5. April 12	10:00 p.m.	Marion	NE	1/2		0	11	250,000		Struck Palmyra, then apparently lifted and did not strike again until it reached Quincy, Illinois.
6. June 15	3:00 p.m.	Adair	NE	1	100	0	5	(5)		Struck near southwestern city limits of Kirksville and moved into extreme southern section of city. After lifting it appeared as straight line wind to Mississippi River.
7. July 7	5:30 p.m.	Cedar	SE	15	440-4400	0	0	50,000	40,000	Struck Jerico Springs. Two funnel clouds reported. Two persons drowned in rain-swollen stream as result of heavy rain accompanying storm. Heavy hail fell northeast and east of Jerico Springs.
MONTANA (None reported)										
NEBRASKA										
1. June 26	7:00 p.m.	Otoe	NE	8	200-440	0	0	500		Windmills, roofs and farm machinery damaged.
2. June 26	7:10 p.m.	Seward	NE	5	440	0	1	5,000		
3. July 4	8:30 p.m.	Butler and Seward	SSE	15	440-2600	7	12	300,000		
NEVADA (None reported)										
NEW HAMPSHIRE (None reported)										
NEW JERSEY										
1. July 2	3:12 p.m.	Mercer	N	4	334	0	3	50,000		
NEW MEXICO (None reported)										
NEW YORK										
1. June 10	8:30 p.m.	Chautauqua	E	2	400	0	10	5,000,000		Confined to city limits. Tornado cloud several feet above ground. Buildings destroyed on west side of Jamestown.
NORTH CAROLINA (None reported)										
NORTH DAKOTA (None reported)										
OHIO (None reported)										

See reference notes at end of table.

TORNADO DATA

Table 5--Continued

YEAR 1945

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
OKLAHOMA										
1. March 16	Near mid-night	McCurtain				0	0	\$6,000		Idabel and vicinity.
2. March 16	Near mid-night	Choctaw				0	0	25,000		Occurred 2 miles east of Hugo.
3. March 16	10:30 p.m.	Bryan			(2)	1	6	60,000		Occurred in Old Kemp and Achilles vicinities.
4. March 18	10:45 p.m.	Harper		3		0	0	10,000		Occurred near Laverne.
5. March 28	Near mid-night	McCurtain			880	0	0	15,000		In Pollard, Red Lion and Shults communities.
6. March 29	7:00 p.m.	Marshall		4	100	0	6	8,000		In Kingston vicinity.
7. April 12	3:25 p.m.	Oklahoma	NE	20	880	8	200	1,000,000		Skirted southeast edge of Oklahoma City. One thousand homeless, 160 homes destroyed.
8. April 12	4:00 p.m.	Latimer		10	220	3	15	30,000		Occurred 4 miles north of Red Oak.
9. April 12	4:50 p.m.	Muskogee	NE	3	440	13	113	1,400,000		Struck residential section and school for blind in Muskogee.
10. April 12	5:00 p.m.	Cherokee	NE	4	220	4	8	7,000		Near Hulbert 81 buildings destroyed or damaged.
11. April 12	5:40 p.m.	Pushmataha	NE	28	880	69	353	1,525,000		About 1/3 of town of Antlers destroyed. 641 buildings destroyed, 751 damaged.
12. April 12		Sequoyah				5	0	(5)		Struck communities of Greenwood Junction and Roland.
13. April 13	8:45 p.m.	Pittsburg		2	880	0	0	3,000	\$100	Struck southeast edge of Quinton.
14. April 13	9:30 p.m.	Atoka		3	440	0	10	10,000	1,000	Struck 1 mile of Farris.
15. April 14	5:30 p.m.	Carter			100	1	1	15,000		Struck 15 miles northeast of Ardmore.
16. April 15	6:35 p.m.	Okfuskee		8	33	0	10	10,000		Struck 2 miles east of Okemah.
17. June 5	7:30 p.m.	Woods		10	3,520	0	3	50,000		In Avard community.
18. September 26	6:05 p.m.	McClain			67	0	0	375,000		In Newcastle and Norman vicinities. Navy planes at Norman damaged.
OREGON										
(None reported)										
PENNSYLVANIA										
1. May 17	3:30 p.m.	Centre	NE	9		0	2	100,000		First struck 1 1/2 miles east of Boalsburg. Traveled northeastward, passed through Centre Hall and ended 1 1/2 miles southwest of Penns Cove. Two farmhouses and 3 barns leveled. Many other structures damaged.
2. September 14	3:00 p.m.	Greene				0	0	10,000	(5)	In Aleppo Township.
3. September 14	4:00 p.m.	Clearfield				0	0	30,000	(5)	In Rockton.
RHODE ISLAND										
(None reported)										
SOUTH CAROLINA										
1. May 10	Afternoon	Anderson and Abbeville	E	35		1	2	10,000		Occurred near Starr.
2. May 10	3:45 p.m.	Newberry	NE	10	440	0	0	15,000		In Tranwood section.
3. June 2	8:30 p.m.	Clarendon and Williamsburg	NE	30	8,640	0	1	1,000		Damage to power and communication facilities, several houses and barns near Greeleyville.
4. June 2	Night	Clarendon				0	0	600		Damage at Camp Bob Cooper near Manning.
5. June 10	5:30 p.m.	Richland				0	0	300		Very small damage at golf course, Lake Forest Club in Columbia. Tore up about 25 trees. Other minor damage.
6. September 17	7:30 a.m.	Williamsburg				1	2	100,000		Damage at Williamsburg Lumber Company camp near Gourdin.
SOUTH DAKOTA										
1. July 3	3:25 p.m.	Beadle	SE	9	(2)	0	1	(5)		Struck farm 17 miles northwest of Huron. Wrecked buildings and machinery. Killed some stock and poultry. Scattered stored grains. Funnel raised, then hit farm 8 miles to southeast and demolished barn and several small buildings. Slightly damaged several others and killed some poultry.
TENNESSEE										
(None reported)										
TEXAS										
1. March 3	7:00 a.m.	Limestone	NE	6	65	0	3	2,000		In Kosse.
2. March 6	2:00 a.m.	Limestone	E	1 1/2	200	0	0	15,000		In Mexia.
3. March 14	7:00 p.m.	Jones	E		100	0	0	25,000		In Stanford.
4. March 14	7:00 p.m.	Haskell	NE	1	300	0	0	6,000		In Haskell.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1945

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
TEXAS (Cont'd.)										
5. March 15	2:30 a.m.	Liberty	NE	12	65 288	2	1	\$1,500		In Kirbyville. Five farmhouses and outbuildings totally destroyed.
6. March 15	3:00 a.m.	Newton				0	2	50,000		
7. March 28	1:00 a.m.	Red River	NE	15	3,500 862	0	1	(5)		In Clarksville. Thirty buildings wrecked, scores damaged.
8. March 28	6:45 p.m.	Van Zandt				0	10	20,000		
9. March 28	8:00 p.m.	Kaufman	NE	15	288	0	2	(5)		In Wills Point.
10. March 29	9:00 p.m.	Hopkins				0	2	(5)		
11. March 30	6:00 a.m.	Limestone	NE	6	150	0	0	600		In Sulphur Springs.
12. March 30	9:00 a.m.	Harris				0	0	10,000		
13. May 20	7:00 p.m.	Coke	NE	7	500	0	2	5,000		In Kosse.
14. June 11	7:00 p.m.	Taylor				0	2	10,000		
15. June 11	11:45 a.m.	McCulloch	E	3	400	1	5	500,000		In Tuskola.
16. June 12	12:30 a.m.	Henderson	NE	10	300	1	Sev- eral	(5)		Commercial buildings damaged in Brady.
17. July 7	7:00 p.m.	Coke				0	2	(5)		
18. August 27	11:20 p.m.	Harris	NW	22	75	1	15	35,000		In Athens.
UTAH										
(None reported)										
VERMONT										
(None reported)										
VIRGINIA										
(None reported)										
WASHINGTON										
(None reported)										
WEST VIRGINIA										
(None reported)										
WISCONSIN										
1. March 27	7:30 p.m.	Taylor	E	1	(2)	0	1	6,000		Farmhouse and barn wrecked.
2. April 11	3:20 p.m.	Langlade	ENE	10	1,760	1	0	100,000		Tornado within larger area of severe winds.
3. May 21	7:00 p.m.	Waushara	NE	6	220	0	0	7,000		Skipped several miles. Most damage at Stevens Point and vicinity.
4. September 19	3:00- 3:45 p.m.	Wood and Portage				E	25	200			0	2	25,000
WYOMING										
1. June 25	Afternoon	Park	N			0	0	0		Funnel above ground accompanied by hail near Wheatland.
HAWAII										
1. April 30	5:00 a.m.	Kauai	NW	3	67	0	0	0	(5)	Originated at sea as waterspout.

See reference notes at end of table.

TORNADO DATA

Table 5

YEAR 1946

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks	
						Killed	Injured	Property (exclusive of crops)	Crops		
ALABAMA											
1. May 16	2 a.m.	Lowndes	NE	3	17	0	0	\$10,000		Destroyed a number of small houses, other farm buildings, many pecan trees and a motor truck in Sandy Ridge area.	
ARIZONA											
(None reported)											
ARKANSAS											
1. January 6	6 p.m.	Chicot	NE	5	880	3	50	50,000		Started in Pike County, ended in White.	
2. November 2	2:30 p.m.	Hempstead	NE	4	200	1	2	40,000			
3. December 26	5 p.m.	Pike and White	NE	155	100-500	0	23	295,915			
CALIFORNIA											
(None reported)											
COLORADO											
1. June 30	2:48-3:05 p.m.	Los Animes	NE			0	0	0		In sparsely settled sections.	
2. July 1	3 p.m.	Adams	ENE		100	0	0	40,000		Five distinct tornado clouds seen near Bennett but only one caused damage.	
CONNECTICUT											
(None reported)											
DELAWARE											
(None reported)											
DIST. OF COLUMBIA											
(None reported)											
FLORIDA											
1. February 27	3 p.m.	Polk	NE	$\frac{1}{2}$	100	0	0	4,000		House demolished, other buildings damaged $4\frac{1}{2}$ miles southeast of Lakeland.	
2. February 27	Early afternoon	Hillsborough				0	3	3,000		One house demolished in populated community of Terrace Park, Tampa.	
3. March 27	1 p.m.	Suwannee	N		200	0	0	10,000	(4)	School building unroofed and several barns demolished.	
4. July 6	Afternoon	Nassau				0	0	0		Occurred in sparsely settled area.	
5. July 19	4:15 p.m.	Alachua			(2)	0	0	21,500		Major portion of property loss at Stengel Air College near Gainesville.	
6. July 30	7 p.m.	Pinellis				0	0	1,500		Unroofed frame house and demolished garage.	
GEORGIA											
1. February 13		Polk				0	0	5,000		Small localized area near Cedar-town damaged 5 homes, destroyed 8 barns.	
2. May 26	4 p.m.	Glynn				0	0	15,000		Small localized area near Brunswick struck only at Dixie Paint and Varnish Company where damage severe to roofs and equipment.	
3. September 22	3 p.m.	Cobbs	ENE	1/3	75	0	4	10,000		Demolished one home with considerable damage to several other buildings and property.	
IDAHO											
(None reported)											
ILLINOIS											
*1. May 17	4:30 p.m.	Franklin, Saline and Hamilton	E	22	167	1	10	100,000		Damage to 6 houses, 12 barns, automobile, power and telephone lines and trees.	
INDIANA											
*1. May 17	5:30 p.m.	Posey	NE		35	0	0	2,500		Crossed from Illinois.	
2. May 24	4 p.m.	Porter, LaPorte, St. Joseph	NE	40	500	0	5	250,000			
3. June 11	5:30 p.m.	De Kalb	NE	2	900	0	0	20,000		At Waterloo 11 barns damaged.	
4. October 18	4:35 a.m.	Johnson	NE	1	33	0	0	50,000		Occurred at Greenwood.	
IOWA											
1. May 18	6:30 p.m.	Crawford	E	3	(2)	0	0	(4)		Began 2 miles north of Delort. Trees uprooted, windmills and small buildings damaged.	
2. May 30	3:15 p.m.	Union, Clarke and Lucas	E	40	850-1,700	0	4	450,000		Heaviest loss in Preston where almost every building in 2 miles by $\frac{1}{2}$ mile area damaged.	
3. June 16	7-8 p.m.	Kossuth	SE			0	0	40,000		25-75% trees damaged on 40 farms; 15 barns blown down.	

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1946

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
IOWA (Cont'd.)										
4. August 8	10 p.m.	Floyd	E			0	0	\$10,000		Wind squall or tornado damaged buildings on 3 farms near Rudd.
KANSAS										
1. April 5	4:30 p.m.	Franklin	SE	6	100	0	0	3,000		Barn and small rural buildings demolished northeast of Ottawa.
2. May 22	6 p.m.	Graham	NE	(1)	(2)	0	0	(4)		Small tornado in conjunction with severe hailstorm. Practically all damage from hail.
3. May 23	3 p.m.	Washington	NE	8	440	0	0			Occurred 11 miles southwest to 4 miles west of Washington.
4. May 23	3:30 p.m.	Washington	NE	20	440	1	0	131,500		Damage includes storm #3. Near Washington to northeast of Hanover damage to 76 rural buildings; much livestock and poultry killed.
*5. May 23	3:30 p.m.	Marshall	NNE	12	440	0	2	36,000		Six miles northeast of Marysville, 5½ miles south-southeast of Liberty, Nebraska. Principal damage to buildings.
6. May 23	6 p.m.	Atchison	ENE	10	440	0	0	30,000		Farm buildings damaged southwest of Atchison. Some livestock killed.
7. May 29	5 p.m.	Kiowa, Pratt	ENE	7		0	0	110,000		Near Wellsford to near Cullison. Chief damage to buildings. Five vortex clouds reported.
8. May 30	1 p.m.	Sumner and Cowley	NE			0	0	(4)		Originated short distance west of Gueda Springs.
9. August 5	4:50 a.m.	Reno	SE			0	0	(4)		Cloud dissipated almost immediately before reaching ground. Minor building damage near Hutchison.
10. September 2	Noon	Wabaunsee	NNE	20		0	0	2,000		Southwest of Eskridge to north of Alma. Large barn destroyed.
KENTUCKY										
1. May 17	2:30-5:30 p.m.	Crittenden	NE	½	20-30	0	2	350,000		Storm more severe in Marion. Injuries occurred near Crane.
2. December 29	12:15-1:30 a.m.	Christian, Todd	E	1	100-500	0	6	300,000		Greatest damage at Camp Campbell to military stores and buildings. Tornado of the bouncing type.
LOUISIANA										
1. May 10	6:22 p.m.	Bossier				0	0	(4)		
2. May 10	6:44 p.m.	Bossier				0	0	(4)		
3. May 19	8:30-9 p.m.	St. Mary			133	0	0	2,800		Occurred at Morgan City.
4. June 22	3:15 p.m.	Acadia			100	0	0	(4)		Occurred at Crowley.
5. July 5	8:20-8:30 a.m.	Jefferson, Orleans	E		100	0	0	25,000		
6. July 22	2 p.m.	Terrebonne	NE		100	0	0	2,500		Occurred at Houma.
7. November 10	5 p.m.	Acadia	NE	(2)		0	3	(5)	(5)	At Rayne several homes demolished.
8. November 10	5 p.m.	Pointe Coupee	NE	10	50	2	3	10,000		Two houses, 3 barns, other outbuildings damaged.
MAINE										
1. September 10	2:50-3 p.m.	Cumberland	NE			0	0	1,000		In north Deering, northern suburb of Portland, minor damage to 2 dwellings and 2 barns leveled.
MARYLAND										
1. August 26	4:28 p.m.	Baltimore	E			0	0	(5)		Damaged 6 automobiles, a jeep, a truck. A one-story gate house lifted from foundation and dropped. Full drums of gasoline lifted; wings of airplanes "ripped to ribbons" at Municipal Airport.
MICHIGAN										
1. June 17	5:55 p.m.	Wayne	E	6	30	0	35	1,000,000		Began in Melvindale, crossed from River Rouge to Ojibway, Canada. Fifteen Canadians killed, 49 injured. Property damage in Canada, \$400.
2. June 17	Evening	Washtenaw		(1)	(2)	1	0	5,000		Struck outskirts of Ypsilanti.
3. June 27	3:37 p.m.	Wayne			200	0	9	400,000		Made circuitous path from Winslow, Ontario to Detroit.
4. September 10	Afternoon	Calhoun		(1)	(2)	0	0	5,000		Struck Albion.
5. September 24	12:46 p.m.	Delta	E	3	100	0	2	350,000		Hit northern Escanaba.
MINNESOTA										
1. June 6	7-9:45 p.m.	Carlton	SE	25		0	2	125,000		About 41 buildings destroyed; many trees uprooted; much poultry and about 100 head of livestock killed.
2. June 16	8:22 p.m.	Mower	NE	3	167	0	0	15,400		A small house and buildings on 2 farms demolished. Structures on 3 other farms damaged; trees uprooted.
3. June 28	2:30 a.m.	Polk, Redlake, Huntington	NE	40		0	4	432,000		Destroyed or damaged many buildings; some livestock and much poultry perished. Many trees uprooted.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1946

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
MINNESOTA (Cont'd.)										
4. June 28	4:45 a.m.	Koochiching	E	(1)	(2)	0	0	(5)		Tornado cone observed at International Falls passing south of station.
5. August 17	6:40 p.m.	Blue Earth	NE	10	440	11	49	\$225,000		Buildings on 8 farms, 3 houses, and Great Lakes Pipe Line plant wrecked or damaged. Tourist camp demolished; much poultry and a number of livestock perished. Hundreds of trees uprooted.
6. August 17	7:48 p.m.	Faribault	NE	5	200	0	25	700,000		Many buildings damaged and a number of farm and town buildings demolished entirely. Much poultry and some livestock perished. Hundreds of trees uprooted.
MISSISSIPPI										
1. January 5 2. January 6	6 p.m.	Wayne Carroll				0 12	0 40	500 187,000	\$60,000	In Waynesboro vicinity. From Coila through Seven Pines. Destroyed nearly every building. Some stored corn damaged.
3. March 15	9:25-10 p.m.	Forrest, Wayne, Lauderdale	NE	95	400-900	0	3	275,000		
4. November 10	9 p.m.	Forrest	NE	14	133	0	0	100,000	50	Damage at Hattiesburg.
MISSOURI										
1. May 23	5-7 p.m.	Atchison, Andrew, Holt, Nodaway	NE	40	110-1,320	0	4	335,000		Series of tornadoes and windstorms over portion of 4 counties with Nodaway County suffering greatest damage. Mostly in rural areas. Considerable livestock and poultry killed or injured.
2. May 23	6:25-6:40 p.m.	Jackson	NE	11	587	2	1	290,000		Originated a little south of Martin City and moved through Holmes Park to southeast corner of Swope Park in Kansas City.
3. May 23	6:30 p.m.-midnight	Lafayette, Ray and Carroll	NE	50-60	33-200	0	13	504,650		Occurred in Napoleon and vicinity at Richmond and southeast Gray County. At Stet, Carrollton, Tina and in Prairie, Leslie and Ridge Townships. Three storms reported to have occurred in Carroll County, all close together.
4. May 23	7:30-7:38 p.m.	Platte	NE	5	67	0	0	5,000		Originated about 5 miles southwest of Barry. Moved to east side of Barry.
5. June 30	6:30-7:40 p.m.	Livingston	NE		1,760	0	0	(5)		Storm struck Chillicothe and vicinity, severely damaging 2 buildings at Industrial Home for Girls.
6. August 5	2:30-6:30 p.m.	St. Louis	NE	(1)	(2)	0	0	(4)		Small local tornado was part of a more general severe thunderstorm condition; demolished hangar at Sylvan Beach Airport and damaged several planes.
7. October 17	3-3:30 p.m.	St. Clair	NE	5	440	0	0	(5)		Struck about 5 miles south of Appleton City, resulting in considerable damage to buildings on 2 farms and to standing timber and orchards.
MONTANA										
1. June 7	2 p.m.	Roosevelt		10	200	1	1	12,500		Farm buildings destroyed. Spruce trees damaged in Froid.
2. June 10	2:30 a.m.	Wibaux	E		7/2	0		25,000	500	Property damaged and 500 livestock lost.
3. June 22	Afternoon	Cascade						(5)		Occurred 2 miles southwest of King's Hill.
4. July 14	5:15 p.m.	Lewis and Clark			50	0		2,000		Storm accompanied by blinding dust with no funnel cloud visible. Damage to 1 farmstead in vicinity of East Helena.
5. September 16	8:15 p.m.	Richland	N	20	8	0	Several	300,000		Three separate storm paths converged into 1; standing corn and grain shocks blown away; shelter belts, orchards, hay stacks and feed yards damaged. Nearly every building over path at least slightly damaged. Power and communications disrupted. .79 inch precipitation at Fairview.
NEBRASKA										
*1. May 23	4 p.m.	Gage	NE			0	0	(4)		Originated in Kansas and spent itself in extreme southeast Gage County at Liberty.
NEVADA										
(None reported)										
NEW HAMPSHIRE										
1. July 23	12:30 p.m.	Merrimack	NNE			1	0	60,000		National Guard arsenal and 8 dwellings damaged 1/3 mile northwest of Concord.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1946

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
NEW JERSEY (None reported)										
NEW MEXICO (None reported)										
NEW YORK										
1. August 13	11:30 a.m.	Niagara	SE			0	0	\$1,500		Two garages destroyed; slight damage to a few houses.
NORTH CAROLINA										
1. May 20	8:15 p.m. to near midnight	Lenoir	NE	25	100-200	4	22	108,000		Storm struck first in vicinity of Seven Springs. Moved east-north-east to Kinston where the loss of life and heaviest damage occurred; thence northeast to Grifton about midnight. Damage included 10 buildings destroyed and numerous others damaged.
NORTH DAKOTA										
1. June 23	9 p.m.	Sioux	ENE	2	200	0	4	85,000		One mile north of Selfridge.
2. June 23	9 p.m.	Sioux	ENE	2	200					Damage and injuries included with Storm #1. Occurred 2½ miles south of Selfridge.
OHIO										
1. May 31	5:30 p.m.	Mercer	E	5	440	0	0	40,000		Small buildings on 4 farms destroyed; hogs and chickens killed; houses unroofed and damaged otherwise. Occurred at Fort Recovery.
OKLAHOMA										
1. February 13	3 a.m.	Carter	NE			1	15	1,000,000		Struck city of Ardmore; 50 homes demolished; 1,700 buildings damaged; 200 persons homeless.
2. February 18	3 p.m.	Oklahoma				0	0	(4)		Homes struck in northeast part of Oklahoma City. Two buildings damaged.
3. March 22	8 p.m.	Osage	NE	3	440	0	0	150,000		In vicinity of Wynona.
4. May 10	7:45 p.m.	McIntosh	SE	10	850-1,700	1	2	25,000		Occurred near Eufaula.
5. May 16	8 p.m.	Caddo	SW		850	0	0	6,000		In vicinity of Carnegie.
6. May 24	3:30 p.m.	Pottawatomie	N	6	100	0	0	5,000		In vicinity of Shawnee.
7. May 24	4 p.m.	Tulsa and Rogers			500	0	0	12,000		Occurred near Collinsville.
8. May 24	6 p.m.	Latimer	NE		100	0	2	4,000		Occurred 6 miles west of Talihina.
9. June 26	6:45 p.m.	Washita			440	0	0	52,500		In vicinity of Cowden.
10. October 17	5:30-6 p.m.	Choctaw			100	0	0	25,000		Goodland Indian School destroyed.
OREGON (None reported)										
PENNSYLVANIA										
1. August 19		Lancaster				0	0	(5)	(5)	Houses and crops damaged.
RHODE ISLAND (None reported)										
SOUTH CAROLINA (None reported)										
SOUTH DAKOTA (None reported)										
TENNESSEE (None reported)										
TEXAS										
1. January 4	2 p.m.	Tarrant	NE	3	300	0	8	(5)		
2. January 4	8:30 p.m.	Angelina	NE		880	3	50	500,000		
3. January 4	9 p.m.	Nacogdoches	NE		880	10	200	1,500,000		
4. January 4	9 p.m.	Anderson	NE	18	440	15	60	500,000		
5. January 4	9 p.m.	Leon				2	0	100,000		
6. January 4	9 p.m.	Hunt	NE	2	200	0	17	50,000		
7. January 8	8:30 a.m.	Jefferson	E	2		0	0	10,000		
8. April 15	5 p.m.	Tarrant	ENE		100	0	0	700		
9. April 15	5 p.m.	Tarrant	E	½	100	0	0	17,700		
10. April 23	3 p.m.	Galveston	NE	½	85	0	0	500		
11. May 15	5 p.m.	Nolan	SE	7	400	1	2	30,300	\$2,500	
12. May 18	Late p.m.	Denton and Montague	SE	70	325	4	0	101,000	11,000	
13. May 24	5 p.m.	Williamson	SE	7	400	1	0	21,500	6,000	
14. May 29	6 p.m.	Montague	SE			0	0	(5)		Demolished 1 house, damaged several buildings.
15. November 5	2:20 a.m.	Harris	N	1/3	17	0	0	(5)		Damaged 1 building.
UTAH (None reported)										

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1946

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
VERMONT (None reported)										
VIRGINIA (None reported)										
WASHINGTON (None reported)										
WEST VIRGINIA (None reported)										
WISCONSIN										
1. September 22	5:55-6:10 p.m.	Sauk	NE	(1)	27	0	0	\$10,000		Damage confined to McBoyle Airport. Hangar unroofed, 3 small airplanes wrecked; 6 automobiles damaged; several trees blown down in Lake Delton vicinity.
WYOMING										
1. July 1	2 p.m.	Albany	NE			0	0	0		Funnel failed to reach ground. Storm observed east-southeast of Laramie Airport.
2. July 4	4 p.m.	Laramie	E			0	0	0		Funnel failed to reach ground. Observed from Carpenter.
3. July 4	4:15 p.m.	Laramie	E			0	0	0		Funnel failed to reach ground. Observed from Cheyenne. Apparently same storm that was observed at Carpenter.

See reference notes at end of table.

TORNADO DATA

Table 5

YEAR 1947

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
ALABAMA										
1. January 30	9:25 a.m.	Montgomery	NE	$\frac{1}{2}$	100	0	12	\$10,000		Adjacent to Gunter Field. Four houses and 1 store destroyed. Several other buildings damaged.
2. January 30	9:50-9:56 a.m.	Elmore	NE	5	75-200	3	16	120,500		Believed to have been same storm as #1 above. Fourteen dwellings, 17 barns destroyed. Twenty-seven other buildings damaged in Kent area of County.
3. January 30	10 a.m.	Conecuh	NE	$\frac{1}{2}$	200	3	12	55,250		Village of Bethel nearly wiped out.
ARIZONA										
1. August 31	Afternoon	Apache				0	0	(5)		
2. December 2	2:45 p.m.	Maricopa	NE	$\frac{1}{2}$	25	0	0	50		Stack of lumber strewn and splintered.
ARKANSAS										
*1. January 29	5:20 p.m.	Izard and Fulton	NE	30	100-300	0	12	168,480		Moved into Missouri.
2. April 29	8 p.m.	Benton	NE	20	330	9	50	200,000		Ended near Eureka Springs in Carroll County.
3. June 1	3:20 p.m.	Jefferson	E	19	440-880	35	300	1,000,000		Occurred just south of Pine Bluff.
4. December 31	4 p.m.	Sevier	NE		20-200	0	3	32,000		Apparently moved toward Oxford (Izard County) across State.
*5. December 31	5 p.m.	Union	NE	60	30-100	0	5	5,500		Apparently originated near Shreveport, Louisiana.
6. December 31	7:45-10:30 p.m.	Columbia to Crittenden	NE	240	50-150	2	96	178,000		
CALIFORNIA										
(None reported)										
COLORADO										
1. June 6	1:40-2 p.m.	Sedgwick	SE	5	150	0	0	497,400	\$2,600	Near Julesburg.
2. June 8	2-3 p.m.	Logan	NE	20	880-1,760	0	3	190,000	110,000	Near Kelly and Leroy.
3. June 18	2 p.m.	Logan	NE	10	150	0	0	10,000		Occurred in thinly settled area near Sterling.
CONNECTICUT										
1. September 2	2 p.m.	Windham	N	18	25	0	0	3,000		Most local damage in Mashentuck. Other parts of path in thinly settled area.
DELAWARE										
(None reported)										
DIST. OF COLUMBIA										
(None reported)										
FLORIDA										
1. March 13	4:30-5:30 p.m.	Gadsden	ENE		300-500	0	0	15,000		Torrential rains and severe lightning. Occurred near Mt. Pleasant.
2. May 8	5:03 p.m.	Dade				0	0	0		Small tornado 10 miles north of Miami Airport.
3. June 14	Afternoon	Polk				0	0	500		Small tornado at Lake Garfield. Trees uprooted.
4. June 14	2:05 p.m.	Volusia			400	0	0	150		Tornado; formed waterspout at sea.
5. July 16	2:17-2:20 p.m.	Palm Beach				0	0	0		Ten miles of West Palm Beach Airport.
6. September 13	Afternoon	Palm Beach				0	0	0		Funnel observed; did not reach ground.
7. September 19	12:30 a.m.	Franklin			85	2	100	250,000		Demolished 27 houses, 31 partly demolished at Apalachicola.
8.)										Three sections of Jacksonville affected; damage to roofs, trees and utility lines.
9.)September 23	9-11 a.m.	Duval		1/4	50-100	0	0	4,000		Damage to roofs, trees and utility lines.
10.)										Damage to roofs, trees and power lines.
11. September 23	10:30 a.m.	Duval		2	800	0	0	4,000		Damage to roofs, trees and power lines.
12. September 23	9-10 a.m.	Duval		1/4	50	0	0	3,000		Damage to roofs, trees and power lines.
13. September 23	9-10 a.m.	Duval				0	1	500		Near Jacksonville Beach.
14. September 23	10 a.m.	Duval			100-200	0	0	5,000		In northeast section of Jacksonville.
15. September 23	4:30 a.m.	Marion				0	0	4,000		Near Ocala; 2 homes damaged.
16. September 22	1:30 p.m.	Hillsborough				0	0	0		Sighted 40 miles south of Tampa by airline pilot.
17. September 22	6:10 p.m.	Hillsborough				0	0	5,000		Fifteen miles west of Tampa 3 small houses damaged.
18. September 22	6:30 p.m.	Hillsborough				0	0	1,000		Roofs damaged near Tampa.
19. October 7	7:30 p.m.	Clay				0	0	(5)		Hit trailer village at Green Cove Springs.
20. October 7	8:15 p.m.	Duval	N	3/4	50-150	0	10	100,000		Struck northern Jacksonville; wrecked trailer village; unroofed houses and broke trees.
21. October 11-12	Night	Dade				0	0	5,000		Several tornadoes in Miami during passage of tropical storm; roofs damaged.

See reference notes at end of table

TORNADO DATA

Table 5-Continued

YEAR 1947

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
FLORIDA (Cont'd.)										
22. November 11	4 a.m.	Okaloosa				0	15	\$75,000		Struck Eglin Field Barracks. Damaged 3 large planes; wrecked barracks. Near Niceville.
23. November 11	4 a.m.	Washington				0	8	25,000		Hit Ebro. 12 or more dwellings suffered major damage.
24. November 11	3:30 p.m.	Taylor	NE		100	0	0	500		Near Perry. Damage to roofs and telephone lines.
25. November 14	11:45 p.m.	Escambia	ENE		35	0	0	100,000		Damaged waterfront and wharf section at Pensacola.
26. December 15	8:25 a.m.	Escambia		1	50	0	4	40,000		Several buildings had major damage at Pensacola.
GEORGIA										
1. January 30	3:15 p.m.	Bibb	ENE	8	200	0	23	200,000		Struck southern Macon in 3 separate areas. Twenty-five or more homes and numerous small buildings destroyed. Heavy damage to airport, 11 airplanes, a warehouse and a tourist camp.
2. January 30	4:15 p.m.	Tift	ENE	(1)	400	0	0	30,000		Several homes and numerous smaller buildings badly damaged including household effects.
3. January 30	Mid-afternoon	Lowndes	E	10	100	0	0	10,000		Zig-zag course with dips in path. A few barns and smaller buildings destroyed with heavy damage to timber and power lines near Valdosta.
4. April 14	9:30 a.m.	Sumter	NE	1	50-250	0	4	45,000	\$2,000	Moderate to severe damage to 25 homes, church and chemical plant at Andersonville. Many trees and power lines downed.
5. April 14	10:50 a.m.	Houston	NE	1-2	100	0	2	40,000		Possibly continuation of preceding storm. Struck 2 miles south of Perry. Moderate to heavy damage to 8 homes, 5 barns, 10 small buildings. Then lifted and struck 5 miles northeast where light damage resulted.
6. May 1	8 p.m.	Glynn			(2)	0	0	1,000		Struck locally at Brunswick Airport and badly damaged 1 airplane.
7. May 8	1 p.m.	Fulton	NE	(1)	(2)	0	0	5,000		Struck local area and lifted soon afterwards. Barn destroyed, home heavily damaged; 20 or more trees blown down, occurred between Roswell and Alpharetta.
8. May 21	9:30 a.m.	Sumter	NE	(1)	(2)	0	0	4,500		Struck in Americus suburbs. One home twisted from foundation and badly shaken. Barn unroofed and other minor damage.
9. November 15	Afternoon	Dougherty	NE	$\frac{1}{2}$	30	0	0	600		One barn demolished and 2 others heavily damaged. Considerable foodstuffs ruined; one pecan tree uprooted. Storm occurred 6 miles south of Albany.
IDAHO										
(None reported)										
ILLINOIS										
1. April 29	7:30 p.m.	Logan, McLean, Tazewell	NE	50	220-440	0	5	120,000		
2. April 29	7:30 p.m.	Peoria	NE	$\frac{1}{2}$	440	0	2	50,000		
3. June 6	3:15 p.m.	Champaign	E	15	34	0	0	200,000		Moved through 15 blocks in W. Champaign, then eastward 15 miles causing slight damage at Ogden; forward speed about 10-25 m.p.h.
INDIANA										
1. January 30	1 a.m.	Johnson, Marion, Hancock, Madison, Henry, Delaware	NE	50	50	0	0	200,000		Buildings, wires, trees downed between Greenwood and Muncie.
2. January 30	2 a.m.	Madison, Delaware, Grant	NE	20	440	0	0	60,000		Buildings destroyed between Frankton and Matthews.
3. May 17	6:30 p.m.	Elkhart	NE	$\frac{1}{4}$	30	0	0	1,000		
4. May 29	1:30 a.m.	Newton	NE	$\frac{1}{4}$	30	0	0	5,000		Occurred in Kentland.
5. July 13	7:20 a.m.	Tippecanoe	SE	6	880	0	0	0		Sighted near Lafayette. Did not reach ground.
6. July 27	5:30 p.m.	Morgan and Brown	SE		880	0	2		100,000	Occurred in Bean Blossom and Fruit Dale.
IOWA										
*1. April 29	3-4 p.m.	Decatur and Wayne	NE	30	200-400	0	1	100,000		Tornado crossed Iowa-Missouri line between Pleasanton and Lineville, Iowa; town of Clio sustained heavy losses.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1947

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
IOWA (Cont'd.)										
2. June 4	5 p.m.	Madison	ENE	20	(2)	0	0	(5)		Severe damage to 6 farmsteads. Near Akron. Observers reported 2 distinct tornadoes, one following the other over slightly different paths. Over 1,000 buildings damaged or destroyed on at least 300 farms.
3. June 9	7-9:30 p.m.	Plymouth and Sioux	NE			1	2	\$250,000		
4. June 22	9:30 p.m.	Kossuth	NE	10	(2)	0	0	(5)		Tornado damaged about 6 farmsteads in Union Township.
KANSAS										
1. April 9	8:15 p.m.	Meade and Ford	ENE	35	440	0	0	225,000		Storm originated 7 miles north of Meade and ended 13 miles east-southeast of Dodge City, damaged farm properties.
*2. April 9	10 p.m.	Barber and Kingman	NNE	40	1,760	0	0	200,000		Continuation of tornado that struck Woodward, Oklahoma. Path in Kansas extended from west of Hardtner to north of Nashville. Chief damage to rural property.
3. April 10	1 a.m.	Marion and Chase	NE	35	880	0	0	50,000		Path of storm passed a short distance north of Peabody and Florence. Farm property losses.
4. April 10	2:30 a.m.	Wabaunsie and Osage	NE	15	220	0	0	25,000		Storm originated southwest of Harveyville, passing near edge of that town with the least damage near Auburn. Building and livestock losses.
5. April 10	1:30 p.m.	Marion and Morris	NE	20		0	2	(5)		Path began near Antelope; some damage in Burdick where it ended nearby; rural property damaged and much pole-line damage.
6. April 28	5:15 p.m.	Thomas and Sheridan	ENE	18	880	0	4	30,000		Partial or total property losses from near Colby then northeast into Sheridan County.
7. May 12	4:30 p.m.	Elk and Wilson	NE	8	(2)	0	0	1,000		A few small buildings and farm machinery damaged southwest of Fall River. No damage from funnel-shaped cloud southeast of Fall River.
8. May 14	2:30 p.m.	Hemilton	NE	10	(2)	0	0	10,000		Farm property losses occurred at intervals from 5 miles southwest of Syracuse to 6 miles east of that city.
9. May 14	5:30 p.m.	Labette	N			0	0	0		Funnel-shaped cloud visible about ½ mile above ground at Parsons, accompanied by distinctive roaring sound.
10. May 16	5:30 p.m.	Franklin	NE			0	0	0		Lower part of cloud with rope-like appearance visible above ground northeast of Ottawa.
11. May 16	2:30 p.m.	Sumner and Sedgwick	NE			0	0	0		Tornado funnel sighted above ground northwest of Wellington and near Peck. A small funnel also off ground visible east of Wichita ½ hour later.
12. June 7	5:28 p.m.	Crawford	NE	1	880	0	1	5,000		Principal wind damage to small buildings in and near Arcadia.
13. June 7	7:30 p.m.	Morris	NE			0	0	50		Storm struck ground in open country between White City and Parkersville dissipating rapidly.
14. June 21	7 p.m.	Norton	N	25	880	1	3	50,000	(5)	Of 7 funnel-shaped clouds visible, 2 traveling on ground damaged farm property and crops.
15. June 24		Rawlins				0	0	(5)		Farm buildings destroyed north of Herndon.
16. June 26	11 p.m.	Rooks	E	11		0	0	16,000		Hangar and 4 planes badly damaged. Farm property losses at intervals east of Plainville.
17. July 2	10 p.m.	Rooks	NE	2	440	0	0	10,000		Damaged area 2-5 miles northeast of Plainville.
18. July 5	8 p.m.	Hamilton				0	0	30,000		Hangar and 13 planes damaged at airport ½ mile north of Syracuse.
19. October 3	6 p.m.	Shawnee	NE	½	33	0	0	500		Roof of hay barn blown off 5 miles northeast of Topeka.
KENTUCKY										
(None reported)										
LOUISIANA										
1. January 2	6 a.m.	Jefferson	NE		100	0	0	1,200		Struck in only 1 block of Metairie, a suburb of New Orleans. Two garages destroyed, 1 outbuilding twisted off foundation. Tiles from all houses and blocks loosened and many blown away.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1947

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
LOUISIANA (Cont'd.)										
2. March 12	8:30-10:30 p.m.	Acadia, Iberia, Iberville, Vermillion				2	Un-known	\$100,000		Damage mostly in Abbeville and Vermillion Parish.
3. April 20	8:15 p.m.	St. Tammany		3/4	300	0	0	1,700		Occurred in Madisonville.
4. November 6	1:30 p.m.	Beauregard	NE	(1)	100	0	0	4,000		At De Quincy, one home and garage destroyed.
5. November 6	6:30 p.m.	Cameron and Calcasieu	NE	20	175	0	0	25,000		Began near Hackberry, dissipated before reaching Lake Charles.
6. November 6-7	7:30 p.m.	Sabine, Winn, Natchitoches	E	60		1	2	20,000		Damage mostly to timber. Occurred between Converse and Winnfield.
7. November 6-7	10 p.m.-5 a.m.	La Fourche, Jefferson	N	30	170	3	10	50,000		Began at Galiano where most property damage occurred and all casualties; reached New Orleans as wind squalls.
8. November 14	12:30-2:30 p.m.	Beauregard, Vernon, Rapides	NE	60	50	0	20	500,000		Struck De Ridder destroying 30 buildings, damaging 50 others; all injuries in De Ridder; degenerated into high winds upon reaching Rapides Parish.
*9. December 31	4-4:30 p.m.	Caddo, Bossier, Webster and Claiborne	E-NE	60	20-450	18	220	1,500,000		First observed at Vanceville, just north of Shreveport; passed over Cotton Valley, Leton, Dykesville and edge of Haynesville, crossing into Arkansas. Moved on erratic path at unusual speed of 50 m.p.h. In Cotton Valley 2/3 of buildings destroyed or severely damaged; 14 dead at Cotton Valley, 2 at Haynesville and 1 each at Lake Leton and Dykesville; 200 injured at Cotton Valley and 20 at Haynesville. Damage in Cotton Valley, \$1,000,000 and Haynesville, \$450,000 and \$50,000 at Leton and Dykesville.
MAINE										
(None reported)										
MARYLAND										
1. April 30	7 p.m.	Carroll				0	0	(5)		At least 3 buildings unroofed, 1 falling on 2 automobiles.
2. May 18	4:35 p.m.	Washington	SW			0	0	(5)		Many trees felled.
MASSACHUSETTS										
1. July 16	7-8 p.m.	Hampshire		1/4	25	0	0	(4)		Over sparsely settled area small funnel cloud observed by rural mail carrier near Amherst.
2. September 2	11:20 a.m.	Plymouth	NE	40	16	1	4	100,000		About 12 houses unroofed in Brockton and a large garage in Easton, killing proprietor. Other communities from N. Providence, northeast over east Massachusetts and southern New Hampshire had severe damage from thundersqualls and lightning. Described as a "twister" in Melrose.
MICHIGAN										
(None reported)										
MINNESOTA										
1. May 15	1:29-1:32 p.m.	Koochiching	E	(1)	(2)	0	0	600		One garage demolished and house and chicken shed damaged.
2. June 9	6:30-11:53 p.m.	Pipestone, Murray, Lyon, Renville, Kandiyohi	NE	140		1	2	625,000		Many barns and outbuildings demolished. State Hospital buildings wrecked or damaged. A number of farm homes damaged. Three box cars and 3 tankers lifted off tracks. Two funnel clouds in southwest Pipestone County.
*3. July 3	7:45 p.m.	Marshall	SE	10	100	2	7	80,000		Nearly all buildings on 6 farms demolished and 3 other buildings elsewhere destroyed. Continuation of North Dakota tornado.
4. August 31	8:25 p.m.	Le Sueur	E	30	133	1	8	142,500		Three houses, 7 barns and many outbuildings demolished; many barns, farm machinery and automobiles damaged. Livestock and poultry perished.
MISSISSIPPI										
1. July 1	5 p.m.	Lauderdale	SE	2		0	0	5,000		In Marion Community.
2. July 18	9:50 p.m.	Hinds	SE	4	400	0	0	9,000		In vicinity of Utica.
MISSOURI										
*1. January 29	6:15 p.m.	Howell	NE	6	440-880	0	0	(5)		Crossed Missouri-Arkansas boundary about 13 miles west of Thayer,

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1947

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
MISSOURI (Cont'd.)										
*1. January 29 (Cont'd.)										Missouri and continued to about 3 miles southwest of Koshkonong. Damage confined to timber and some barns.
2. January 29	6 p.m.	Howell	NE	6	440-880	0	1	(5)		Struck 2 miles north of Pomona; lifted and disappeared east of Hutton Valley. Several houses and barns completely destroyed or badly damaged.
3. January 29	6 p.m.	Oregon and Carter	NE	45	1,760	1	19	(5)		Struck about 4 miles southeast of Thayer. Moved to near Van Buren. Red Cross reported 115 buildings destroyed, 215 damaged; 32 head of livestock and 1,200 head of poultry killed in Oregon County. Damage to buildings and timber in Carter County.
4. January 29	7 p.m.	Howell and Shannon	NE	30	2,200	5	5	3/\$20,000		Struck 8 miles south of Mountain View and 1/2 mile west of Shannon-Howell County boundary and moved to north of Eminence. Fifty-eight buildings destroyed, 42 others damaged; 29 head of livestock, and 600 head of poultry killed according to Red Cross reports.
5. April 5	1:15-1:30 a.m.	Cedar	NE	2	200	0	1	200,000		Occurred at El Dorado Springs. Many homes, several business buildings and a church badly damaged; several barns, outbuildings, many trees and wires blown down; one horse and many chickens killed.
6. April 5	4:30 a.m.	Calloway	NE	2	880	0	0	3,000		Struck Dixie and Ham's Prairie areas, damaging farm homes, outbuildings, roofs, trees and power and telephone lines.
*7. April 29	2:25 p.m.	Worth	NE	32	440-880	14	40-50	772,000		Struck first about 6-8 miles south and west of Worth. Passed thru town of Worth demolishing business district and demolishing or damaging practically every home or building in the town. Continued thru Denver and Hatfield areas, damaging farm homes and outbuildings and crossed into Iowa striking Clio.
8. April 29	9-9:30 p.m.	Dent, Phelps, Crawford	NE	10		1	5	30,000	(4)	Struck near Lake Springs and continued thru Hobson, Seaton and Winkler Communities. Several farm homes, barns, and other outbuildings demolished or badly damaged and much valuable timber blown down; considerable livestock killed or strayed.
9. May 20	7 p.m.	Dunklin	NE			0	0	(5)		Struck at Kennett and vicinity; wrecked one building in Kennett and badly damaged 2 farm dwellings and a barn northeast of Kennett.
10. June 1	3:40-4:15 p.m.	Howell	E	15	440-880	1	2	20,000	(5)	Struck Olden, Pamona, Dripping Springs, White Church and Peace Valley Communities damaging farm homes, buildings, outbuildings, timber, wires, orchards and fences. Some livestock and poultry killed; roads and highways blocked by fallen trees; heavy hail in some areas.
11. June 4	10:45-11 p.m.	De Kalb	NE	4	440-3,520	0	1	10,000	\$100	Struck near Oak, damaging house, several barns, outbuildings, trees and orchards; several head of livestock and poultry killed.
12. June 6	8:08-8:14 p.m.	Clay	ENE-ESE	2 1/2	200-660	0	Few	105,000	(5)	Struck short distance southwest and south of Excelsior Springs; passed thru Crescent Lake and over Lake Maurer; 2 or 3 houses totally destroyed; 12 or more partially destroyed, also number of outbuildings; some livestock killed; much damage to telephone wires, growing crops and gardens.
13. June 27	8:45-8:55 a.m.	Butler	NE	11	100	0	0	10,000		Struck Harviell and vicinity, damaging a number of business buildings, houses, barns and automobiles. Many telephone lines downed.
14. June 30	4-5 p.m.	Johnson	ESE	7	440	0	1	60,000	(5)	Struck Kingsville and Holden; destroyed 6 residences, damaged 15 others, a school, several barns and outbuildings; tore down trees

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1947

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
MISSOURI (Cont'd.) 14. June 30 (Cont'd.)										and power and communication lines, disrupting gas service when a "service gate" west of Holden was damaged. About 100 chickens killed at Holden.
15. September 11	Early a.m.	Mercer and Putnam	SE	22		0	0	(5)	(5)	Bulk of damage in Mercer County striking towns of Cleopatra and Ravanna; numerous homes, barns, outbuildings, trees, wires and a few windmills damaged or blown down. Most haystacks in storm's path blown down or tops blown off, and hay scattered. Considerable damage to corn and soybeans by hail which accompanied storm.
16. September 11	11:10-11:25 a.m.	Calloway	NE	5-6	1,760	0	0	\$10,000	\$1,000	Struck vicinity a few miles south and east of Fulton, damaging a number of barns, outbuildings, trees and wires; killed some poultry. Moderate hail accompanied storm, damaging corn and gardens; driving rain also accompanied storm and was blown into homes causing much damage.
MONTANA 1. August 20	5:45-6:15 p.m.	Daniels	ESE	25	8,800	0	0	350,000		
NEBRASKA 1. June 4) 2. June 4) 3. June 4)	4:20 p.m.	Seward	NE		(2)	0	0	5,000		Three small tornadoes.
4. June 21) 5. June 21) 6. June 21) 7. June 21) 8. June 21)	8:30-9:30 p.m.	Phelps	NE			2	Sever-al	175,000		Five tornadoes; one 20 miles long. Buildings on 4 farms destroyed; 22 others damaged; 4 cars wrecked; some livestock killed.
NEVADA (None reported)										
NEW HAMPSHIRE (None reported)										
NEW JERSEY (None reported)										
NEW MEXICO 1. May 5	2 p.m.	Union	SE	2	50	0	0	0		Struck in open field near Grenville.
NEW YORK 1. July 7	2:25 p.m.	Montgomery	NE	1	166	0	0	5,000		Trees uprooted, 2 cottages and garages badly damaged at E. Caroga Lake.
NORTH CAROLINA *1. April 30	4:30 p.m.	Robeson	ENE	9	150	1	4	250,000		Crossed from South Carolina; damage confined to Fairmont area.
NORTH DAKOTA *1. July 3	6:30 p.m.	Walsh	SE	200	300	8	20	200,000		Crossed into Minnesota; first struck 3 miles south of Hoople, ended in vicinity of Alvaredo, Minnesota. Probably originated in Manitoba, Canada. Most serious damage at Warsaw, Walsh County; 3 houses demolished; barns and other buildings damaged, debris scattered for miles. Bridge over river 1½ miles east of Warsaw torn from concrete foundations; steel beams strewn along river bank; livestock losses severe.
OHIO 1. January 30	6 a.m.	Clark				0	0	250,000		In Springfield buildings at 2 manufacturing plants unroofed and otherwise damaged.
2. May 13	4 p.m.	Hancock	NE		(2)	0	17	100,000		In Findlay 45 trailers in trailer camp destroyed or damaged.
3. May 14	9 p.m.	Licking				0	0	(5)		Several farm homes, barns, and smaller buildings demolished.
4. May 21	9:37 a.m.	Crawford				0	1	15,000		Greatest damage at Chatfield.
5. May 29	5 p.m.	Henry			(2)	0	0	(5)		Barn destroyed; small buildings leveled 5 miles southwest of Napoleon.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1947

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
OHIO (Cont'd.)										
*6. June 7	Afternoon	Trumbull	E	15		3	40	\$100,000		Tornado apparently moved from point 3 miles south of Warren, eastward to Sharon and Mercer, Pennsylvania. About 30 homes in Ohio wrecked.
7. September 1	8 p.m.	Medina	SE	15	175	0	0	50,000		Three barns destroyed, skating rink in Medina demolished.
8. September 5	5 p.m.	Gallia	S	1	500	0	0	(5)	(5)	Two silos destroyed; barn roofs damaged; trees and corn blown down.
OKLAHOMA										
1. April 4	5:30 p.m.	Caddo			(2)	0	0	1,000		Struck Pleasant View Community 5 miles north and 3 miles east of Carnegie.
2. April 4	5:30 p.m.	Caddo	ENE	15	(2)	0	0	5,000		From 2 miles south of Carnegie to 4 miles north of Fort Cobb.
3. April 5	2 a.m.	Le Flore	NE	30	100	4	3	50,750		Struck Glendale farm community south of Wister.
*4. April 9	8-10 p.m.	Ellis, Woodward and Woods	NE	101	2,640-3,168	101	782	8,022,750		Most destructive tornado ever known to strike in Oklahoma. Three states, Texas, Oklahoma and Kansas were in its 221 mile path. Largest city in this relatively sparsely settled area is Woodward. Much rural property destroyed in Ellis County. Forward rate of movement 42 m.p.h. Losses in Woodward above 95 lives and \$6,608,750 property damage.
5. April 9	11 p.m.	Woodward				0	0	3,000		Vicinity of Quinlan.
6. April 29	8 p.m.	Wagoner			880	0	0	5,000		
7. May 11	4:30 p.m.	Jackson	N	7	440	0	3	20,000		West and north of El Dorado.
8. May 11	8:30 p.m.	Blaine	NE	15	220	0	5	56,500		All injuries in Hitchcock.
*9. May 31	6:15-7 p.m.	Ellis	NE	50	220-440	0	1	9,500		Lifted from time to time; entered State near Higgins, Texas, dissipated near Fargo. Eight to 10 farmsteads severely damaged, 5 farmsteads partly rebuilt were wrecked again, having been wrecked first time by tornado April 9.
10. May 10	7:30-8:15 p.m.	Roger Mills and Dewey	NE	18	440-880	6	15	1,000,000		Struck Leedey, destroyed 147 residences, 20 business places, about 3/4 of town. For so violent a storm casualties were light as ample warning was given and forward progress was very slow.
11. May 31	8:45-9:10 p.m.	Jackson	NNE	10	100-440	0	3	178,500		Storm originated 3 miles north of Altus moving thru Blair.
12. June 6	7:15-7:45 p.m.	Major	E	1½	200	0	0	4,000		Storm began 6 miles east of Chester, traveled due east along Highway 60.
OREGON										
(None reported)										
PENNSYLVANIA										
1. May 21	4:45 p.m.	Berks	E	6	750	1	0	(5)		Several buildings damaged; trees and utility poles felled near Shoemakersville.
2. May 25	5 p.m.	Berks	NE			0	0	(5)		Damage to several buildings in Hamburg and Lenhartsville; trees and utility poles felled.
3. May 29	3:30 p.m.	Cumberland		15	1,750	0	0	100,000		Scores of buildings damaged at Carlisle.
4. May 29	4:30 p.m.	Schuylkill		1½	50	1	0	(5)		Houses and trees damaged at Pine Grove.
*5. June 7	3:55 p.m.	Mercer				0	4	(5)		Buildings, trees and cars damaged in Sharon, Mercer and Grove City.
6. June 7	3:55 p.m.	Mercer				3	0	1,000,000		Entered State from Ohio.
7. September 2	Morning	Washington			100	2	20	100,000		Storms 5 and 6 evidently associated.
RHODE ISLAND										
(None reported)										
SOUTH CAROLINA										
*1. April 30	4:30 p.m.	Dillon	NE		900	0	0	5,000		Moved into North Carolina near Fairmont.
SOUTH DAKOTA										
(None reported)										

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1947

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
TENNESSEE										
1. January 15	Early a.m.	Madison and Henderson	NE	1½	70	4	0	\$8,000		Destroyed or damaged houses, out-buildings, livestock and automobiles.
2. January 29	11-11:30 p.m.	Haywood and Crockett	N	7	400	1	12	(5)		Farm houses and outbuildings destroyed or damaged at Brownsville.
3. April 11	3 a.m.	Maury	N	2		0	0	2,500		Small tornado.
4. April 11	9 a.m.	Knox and Union	NE	1	20	0	0	2,900		Small tornado.
5. April 11	A.m.	Maury	N			0	0	1,500		Small tornado.
TEXAS										
1. April 4	5:30 p.m.	Haskell	NE	3	100	0	0	2,000		Buildings in west edge of Haskell damaged.
*2. April 9	5:42 p.m.	Carson, Hemp-hill, Lipscomb	NE	40	250-2,640	68	201	1,550,000		Path of this storm varied from 250 yards at White Deer to 1½ miles at Higgins; passed into Oklahoma.
3. April 29	9-10 p.m.	Kaufman and Van Zandt	NE	9	200	0	5	20,000		Six houses, several barns destroyed from Maybanks to Clover.
4. April 30	6:40 p.m.	Rockwall	NE	6	100	0	10	10,600		Two persons killed in auto accident while driving away from storm.
5. May 11	4:30 p.m.	Ector	E		880	0	0	100,000		Buildings and oil derricks destroyed or damaged at Odessa.
6. May 11	6 p.m.	Martin	NE		880	1	14	150,000		Six houses, 2 cotton gins, 1 store building demolished at Lenorah.
7. May 16	Afternoon	Rush and Harrison	NE			0	3	(5)		One store building demolished.
*8. May 31	6:45 p.m.	Lipscomb	NE		165	0	0	0		Tornado struck where storm of April 9 had demolished buildings at Higgins. Passed into Oklahoma.
9. June 4	5:20 p.m.	Wheeler	NE	4	100	0	0	(5)		Buildings damaged at Twitty.
10. October 13	Afternoon	El Paso	NE			0	0	(5)		One roof blown off by small tornado at Tornilla.
11. November 6	6 p.m.	Jefferson	E	1	200	0	3	20,000		Damage to buildings at Nederland and Pine Island.
12. November 14	1:30 p.m.	Liberty	NE	½	880	0	3	10,000		Damage to buildings and automobiles in Hardin Community.
13. December 31	3 p.m.	McLennan	NE		880	0	0	(5)		Two automobiles blown over near Ross.
14. December 31	4 p.m.	Bell	NE		200	0	0	50,000		Buildings unroofed at Temple.
UTAH										
(None reported)										
VERMONT										
(None reported)										
VIRGINIA										
1. May 21	7 p.m.	Albemarle	NE	1	100	0	2	15,000		Occurred 1/4 mile north of Scottsville. Buildings unroofed, sheds blown over; trees uprooted.
2. July 31	6:30-7:30 p.m.	Charlotte and Lunenberg	SE	20	3,520	0	0	280,000		From Phenix to Rehobeth; major damage in Keysville area.
3. August 4	9:30-10 p.m.	Bedford	NE	5	3,520	0	0	10,000		In Nicopolis Church Community.
WASHINGTON										
(None reported)										
WEST VIRGINIA										
(None reported)										
WISCONSIN										
(None reported)										
WYOMING										
(None reported)										

See reference notes at end of table.

TORNADO DATA

Table 5

YEAR 1948

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
ALABAMA										
1. March 16	2:05 a.m.	Lauderdale	NE	1	100	0	3	\$200,000		At Florence 30 buildings destroyed, 43 others damaged; about 20% of damage due to water on exposed goods.
2. March 26	7 p.m.	Pickens	NE	2	100	3	40	70,000		At Aliceville damage mostly to homes.
3. March 26	11:15 p.m.	Lee	NE	1/3	80	0	4	200,000		Along railroad tracks in north Opelika.
4. April 6	3:30 p.m.	Clay	SE	1 1/2	200	0	3	200,000		At Ashland damage mostly to homes.
ARIZONA										
(None reported)										
ARKANSAS										
*1. March 25	Midnight	Crawford and Washington				0	0	14,000		Originated in Hughes County, Oklahoma.
CALIFORNIA										
(None reported)										
COLORADO										
1. April 24	P.m.	Washington				0	0	(4)		Of short duration, occurring in sparsely settled areas. Observed from distance.
2. April 24	P.m.	Washington				0	0	(4)		See remarks above.
CONNECTICUT										
(None reported)										
DELAWARE										
(None reported)										
DIST. OF COLUMBIA										
(None reported)										
FLORIDA										
1. January 24	3:15 a.m.	Manatee	ENE			0	0	25,000		Damaged homes on Ana Maria Island and packing house on mainland.
2. March 27	2-3 p.m.	St. Johns	E			0	0	500		Broke power lines and felled trees.
3. June 5		Sarasota	E	1/4	35	0	0	150		Waterspout moved inland over Lido Beach.
4. June 26	3:30-3:39 p.m.	Dade				0	0	0		Waterspout off Miami.
5. June 30	4:55 p.m.	Orange	N			0	0	0		Funnel cloud did not reach ground.
6. July 9	4 a.m.	Washington				0	2	8,000		House and 2 barns destroyed.
7. July 18	Afternoon	Dade				0	0	(4)		Some windows broken.
8. July 24	5:35 p.m.	Pinellas	E		50	0	0	1,500		Two waterspouts came in from Gulf of Mexico and a tornado formed inland. Two houses unroofed and small boats damaged.
9. August 19		Hillsborough				0	0	0		Waterspout over Tampa Bay.
10. September 4	2:51-3:04 p.m.	Nassau	S	2		0	0	0		Storm path along beach.
*11. September 4	Early afternoon	Gadsden	NNW		70	2	12	250,000		Storm struck 1/2 mile south of Savannah, Georgia, then skipped to northwest section of town and continued into Decatur County, Georgia.
12. September 4		Santa Rosa	NNW	3	200	0	0	5,000		Unroofed store and house.
13. September 11	8 a.m.	St. Johns	NE			0	0	0		Waterspout offshore.
14. September 21		Dade	NW			0	0	4,000		Occurred in northeast sector of hurricane.
15. October 5		Dade	NNE			0	0	15,000		
16. October 5		Broward	NNE			0	0	(5)		
17. October 5		Broward	NNE			0	7	100,000		Storms #15, 16 and 17 may have been same storm in forward sector of hurricane.
GEORGIA										
1. March 16	5:05 p.m.	Dougherty	NNE	1-2	100	0	0	5,000		House, barn, 3-car garage and several smaller buildings badly damaged. Many trees uprooted and delimbed at Albany. A home badly damaged and several small buildings almost completely demolished at Minton.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1948

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
GEORGIA (Cont'd.)										
2. March 16	6 p.m.	Pike	NNE	10	100-200	0	0	\$2,500		Struck first in sparsely settled section near Molena, causing light damage, later striking in Zebulon, where 3 cabins, several barns and some other small buildings practically demolished.
3. March 27	2 a.m.	Floyd	E	4	100	0	0	5,500		A house demolished, 6 others severely damaged, including heavy damage to timber and losses of poultry.
4. March 27	2:50 a.m.	Bartow	NE	20	300-500	0	Several	100,000		Began at Euharlee, near Cartersville, where heavy damage to textile mill, after which storm moved thru rural section causing heavy damage at Cartersville Airport and destroyed at least 12 homes and numerous smaller buildings along entire storm path. Power and telephone lines blown down, including many trees.
5. March 27	Early a.m.	Henry	NE	8-10	100	0	0	7,000		Small store destroyed and several homes and other buildings damaged at Hampton. Storm moved thru heart of McDonough, where several buildings unroofed or otherwise damaged by falling trees; courthouse steeple corner loosened, causing shattering of window panes and other damage.
6. March 27	4:10 p.m.	Johnson	ENE	3	200-400	0	0	5,000		Power substation blown over; many buildings sustained moderate damage; several barns demolished; power and telephone services disrupted.
7. April 1	3 a.m.	Seminole and Decatur	ENE	15	200-300	1	Several	10,000		Started at Reynoldsville, where homes demolished and trees uprooted. A short distance eastward a residence, school and several small buildings heavily damaged. At Spring Creek power dam 6 homes badly damaged. Timber badly damaged all along path. Lightning struck and killed 1 person and injured several others.
8. April 1	Early a.m.	Tift	NE	2	100	0	0	5,000		Struck wooded pasture land, damaging timber heavily, and farther on a tractor shed and part of home destroyed near Harding community.
9. April 1	Early a.m.	Colquitt	NE			0	0	5,000		Heavy damage to a church, 2 homes and a barn a few miles south of Moultrie; very small area affected.
10. April 1	11:30 a.m.	Cook	E	12	200	0	0	50,000		Moved from Little River to New River, crossing county between Lennox and Sparks. More than 20 homes and other buildings damaged, some very badly, including damage to timber; power and telephone lines blown down, generally along path. Other miscellaneous damage.
11. April 1	12:15 p.m.	Ware, Pierce, Wayne	ENE	40	200-400	2	Several	250,000		One or more tornadoes started near Bolen. Passed thru Bristol and Mershon, ending beyond Jesup. Very heavy damage to timber. Many homes and other buildings totally or partially destroyed. Power and telephone lines blown down. One person killed and several injured at Bolen. Another killed by lightning and several injured near Jesup.
12. May 4	1:52 p.m.	Greene	ENE	11	100-150	0	0	10,500		Began 8 miles west of Greensboro; 1 home totally destroyed, another heavily damaged. A dairy farm, concrete building badly cracked. A barn unroofed. Much damage to timber.
13. May 4	2:35 p.m.	Dougherty	N	4	100	0	0	700		Struck 3 miles east of Albany; small garage destroyed; many trees blown down, some of which pulled down power lines and damaged large transformer. Chicken brooder destroyed.
14. July 9	Mid-afternoon	Talbot				0	0	4,000		Storm moved down valley near Talbotton, heavily damaging 1 home

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1948

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
GEORGIA (Cont'd.)										
14.July 9 (Cont'd.)										
15.July 24	1:30 p.m.	Terrell	SSE	1/5	25-50	0	0	\$4,000	\$1,500	and causing minor damage to another and to 10 tenant houses. Struck only industrial area of Dawson, unroofing and causing other damage to a cotton mill, unroofing several other buildings and causing loss of stored peanuts.
*16.September 4	1:15-2:00 p.m.	Decatur	NW	10-15	50-100	0	0	30,000	20,000	One or more tornadoes possibly crossing from Florida moved thru Belcher community, where 5 tobacco and livestock barns destroyed. Losses to crops, chiefly peanuts.
17.September 4	1-2 p.m.	Grady	N	10-15	50-75	0	0	45,000	30,000	Tornado lifted after passing Whigham. Numerous homes and other buildings substantially damaged. Many trees, power and telephone lines blown down; crops in fields and in storage suffered heavily, especially peanuts and pecans.
18.November 5	6:30 p.m.	Carroll	N	2	100	0	0	5,450	500	Near Bowden, 2 homes badly damaged and furnishings scattered widely. Several barns and other houses damaged. Some poultry blown away and livestock injured by falling trees; some stored crops lost.
19.November 5	Late evening	Haralson	N			0	0	500		Small tornado struck near Buchanan in sparsely settled section, causing light to moderate damage to buildings.
20.November 5	6:40 p.m.	Polk	NE	2	200	0	3	125,000		Storm passed thru Cedartown, destroying 4 residences and several other buildings, heavily damaging 70 buildings with lesser damage to 60 or more buildings. Considerable damage to power and telephone lines. Said to be worst storm in history of Cedartown.
21.November 19	1 p.m.	Sumter	NE	2-3	100-200	0	4	8,500	1,500	Occurred near Plains community. One house destroyed and household effects blown away. Three tenant houses and 3 barns destroyed. Some livestock killed; large amount stored peanuts lost; automobile wrecked; many trees uprooted or limbs broken.
22.November 19	1 p.m.	Talbot				0	2	5,000		Local storm. Two houses and smaller building destroyed and 5 other buildings damaged.
23.November 19	1 p.m.	Clayton	NE	1	200	0	0	9,000	1,000	Struck dairy farm near Forest Park; 2 tenant houses destroyed; large dairy barn unroofed; garage and several small barns destroyed; damage to stored crops and feed-stuffs.
IDAHO										
(None reported)										
ILLINOIS										
*1. March 19	6:30-7:35 a.m.	Madison and Shelby	NE	80	440	33	449	3,765,000		Began in Missouri, entered Illinois at Alton. Heaviest damage at Bunker Hill; Fosterburg, Dorchester and Gillespie also hard hit. In Rossville area.
2. March 19	10:30 a.m.	Vermilion	NE			0	0	50,000		Began in St. Francis County, Missouri. Hit New Athens area in Illinois.
*3. March 19	7 a.m.	St. Clair	NE	25	100	0	0	20,000		Developed near St. Charles, Missouri. In rural area of southwest Menard County.
*4. March 26	2 p.m.	Jersey	NE	10		0	0	75,000		In Leverett-Penfield area. Crossed into Indiana from north Kankakee County.
5. March 26	3:30 p.m.	Menard	E	7	880	0	0	52,000		In Buckley area. Crossed into Indiana. Hit Calumet City, moved into Hammond, Indiana.
6. April 7	4:55 p.m.	Champaign	NE	16	50	0	2	100,000		In Coal City-Braidwood area.
*7. April 7	5:20 p.m.	Kankakee	E	16	100	3	25	580,000	6,000	
8. April 7	5:15 p.m.	Iroquois			400	0	0	10,000		
*9. April 7	5:30 p.m.	Vermilion	E	20		0	1	25,000		
*10. April 7	5:30 p.m.	Cook	E	2	70	0	1	30,000		
11. April 7	Late afternoon	Grundy	E	5		0	0	25,000		

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1948

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
ILLINOIS (Cont'd.)										
12.June 28	2:20 p.m.	Champaign and Vermilion	NE	7	100	0	0	\$6,000	\$4,000	Began near Ogden.
13.August 17	5:45 p.m.	Warren and Mercer	E	10		0	5	470,000	130,000	Accompanied by severe hailstorm.
INDIANA										
1. January 1	11:30 a.m.	Washington	NE	2	100	0	0	20,000		In Salem area.
2. February 27	5:30 p.m.	Morgan	NE	1	30	0	0	10,000		In Centerton about 10 miles north of Martinsville.
3. March 26	5 p.m.	Vigo and Jay	NE	135	880	20	200	3,000,000		Much of Coatsville demolished. Severe damage in Danville. Minor damage on each side of path. Curved path Chicago to northern La Porte County. Heaviest damage in Porter County.
*4. April 7	5 p.m.	Lake, Porter, La Porte	E	45	440	0	10	600,000		Path south of Lowell. Some damage to north and south of path. Entered State from Illinois.
*5. April 7	5:30 p.m.	Lake and Porter	E		200	1	12	300,000		Robroy and Fountain County hit. Entered State from Illinois.
*6. April 7	5:30 p.m.	Warren, Fountain and Tippecanoe	NE	25	100	0	4	50,000		From southern edge of Alexandria to north of Muncie.
7. April 7	9 p.m.	Madison and Delaware	E	15-20	500	0	1	100,000		Three funnels reported. Worst damage in Ridgeville in northern Randolph County. Passed into Ohio.
*8. May 2	4 p.m.	Delaware, Randolph and Jay	NE	45	880	0	8	160,000		Path south of Mishawaka; airport damaged; some damage in Elkhart. Passed thru Henryville.
9. May 10	4:45 p.m.	St. Joseph and Elkhart	E	25	440	0	0	20,000		
10.June 7	6 p.m.	Clark	SE		100	1	20	100,000		
IOWA										
1. April 23	3:25 p.m.	Chickasaw	NE	2	100	5	25	250,000		Total destruction in town of Ionia. In area of 300 feet wide and 3 blocks long.
2. May 15	10 p.m.	Clay		1/4	(2)	0	1	1,500		Several small buildings demolished and several parked cars damaged in town of Gillett Grove.
*3. June 22	4 p.m.	Fremont and Mills	NE	30-35	100-200	0	1	250,000	200,000	Tornado first observed near Talmadge, Nebraska. Skipped thru farm land in Fremont County. Caused much damage as it struck higher hills.
4. June 29	5:10 p.m.	Benton	NE	6	100	0	0	23,000		Storm originated near Belle Plaine, striking about 6 farmsteads.
5. June 29	7:30 p.m.	Dubuque	NE	20-25		0	0	250,000	50,000	Tornado formed 5 miles northwest of Cascade. Was last observed near city of Dubuque; width varied considerably along path.
KANSAS										
1. March 18	10:23 p.m.	Sedgwick	NE	1	40	0	2	200,000		Damage to Federal Housing, private and Government planes 8 miles east-southeast of Wichita. Other minor damage.
2. April 24	11 a.m.	Ellis	E	10	100	0	1	8,000		Rural buildings damaged near Hays and Victoria.
3. April 24	5:30 p.m.	Chase	NE	3	300	0	0	10,000		Rural property damaged 8 miles south of Cedar Point.
4. May 1	3:55 p.m.	Sedgwick and Harvey	NE	30		0	0	50,000		Storm path extended from near Bentley to Walton. Loss to rural property.
5. May 1	5-5:30 p.m.	Chase	NE	26		0	0	25,000		Damage to rural property.
6. May 1	6 p.m.	Osage	SE			0	0	0		Near Overbrook. Did not reach ground.
7. May 1	6:25-7:30 p.m.	Neosho	NE	25	100	2	5	500,000		Several vortex clouds sighted. Damaged buildings on 60 farms. Damage centered in Russell.
8. June 15	12:15 a.m.	Russell	SE			0	0	75,000		In vicinity of Meade. Did not reach ground.
9. June 18	Noon	Meade	SE			0	0	0		Path extended from 9 miles east-southeast of Pittsburgh to near Missouri line. Associated with general windstorm.
10.June 20	6:05 p.m.	Cherokee	NE	8	440	0	0	124,000		Two paths passed thru Wichita. Chief damage in southwest part of city.
11.June 21	7:15-7:30 p.m.	Sedgwick	NE	8		0	12	1,000,000		Chief damage near Sharon.
12.June 21	4:03-4:51 p.m.	Barber and Harper	NE	42	650	0	1	50,000		
13.June 22	7:30 p.m.	Miami			75	0	0	10,000		Damage to rural property a few miles west of Hillsdale.
14.June 27	11:25 p.m.	Montgomery	NE	1 1/2	880	0	0	11,000		Property damage at Elk City.

See reference notes at end of table.

TORNADO DATA

Table-5-Continued

YEAR 1948

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
KANSAS (Cont'd.)										
15.July 14	6:30 p.m.	Reno				0	0	(4)		Effects of small tornado seen in western part of Hutchinson were masked by general windstorm.
16.July 14	10:30 p.m.	Elk	SE	4 1/2	100	0	0	\$5,000	\$2,500	Occurred 2 1/2 miles northeast of Howard.
17.October 29	10 p.m.	Brown	NE	1	220	0	0	5,000		Damage to buildings and power lines near Hiawatha.
KENTUCKY										
1. January 1	3 p.m.	Pendleton			100	0	0	55,000	45,000	Damage to building, woodlots and corn.
2. March 19	2-2:30 p.m.	Bracken		10	440	2	0	15,000		Most violent in vicinity of Brookville.
3. April 6	2 p.m.	Fayette			200	2	3	30,000		Tornado of bounding type. Damage mainly at Keeneland Race Track at Lexington.
4. April 12	4:45-5 a.m.	Madison			800	0	0	125,000		Several buildings at Bluegrass Ordnance Depot at Richmond destroyed.
5. May 2	7-8 p.m.	Wayne and Clinton		10	300	5		50,000	150,000	A church and several residences at Alpha demolished. Crops, livestock, farm buildings and equipment in path of storm.
6. November 5	4:30 a.m.	Butler			880	0	0	15,000	10,000	School unroofed and gymnasium building almost completely destroyed. Many farm buildings and stored crops seriously damaged near Rochester.
7. November 5	5:45 a.m.	Hardin			50	1	2	10,000	40,000	One residence completely demolished. Many other buildings severely damaged near Cecilia. Many cows, chickens and other livestock killed. Much corn, tobacco and wheat stored in barns scattered and destroyed.
LOUISIANA										
1. May 4	Early a.m.	Rapides	NE		200	0	0	15,000		Destroyed school house and unroofed several homes at Plainview.
*2. November 5	12:30-2:30 a.m.	Rapides and Catahoula	ENE	120	100	1	19	320,000		Developed near Alexandria and moved to near Vicksburg, Mississippi. Greatest damage at Harrisonburg and Sicily Island in Catahoula Parish. Fifty-one buildings destroyed and 40 damaged.
3. November 18	7 p.m.	Franklin and Richland	N		150	0	17	125,000		Seventeen buildings destroyed; 15 damaged. Greatest damage at Delhi.
MAINE										
1. July 11	Afternoon	Aroostook				0	0	(4)		Locally described as "twister". In sparsely settled areas.
MARYLAND										
1. March 19	8-8:45 p.m.	Garrett	E	24	220-440	0	0	45,000	(4)	Livestock and poultry killed. Timbered areas greatly damaged. Small buildings damaged.
2. July 6		Calvert				0	0	(5)		Completely demolished 2 barns about 8 miles from Solomons.
3. September 8	6:30 p.m.	Baltimore				0	0	50,000		Roofs ripped off; trees uprooted; windows blown in in Baltimore City.
MASSACHUSETTS										
(None reported)										
MICHIGAN										
(None reported)										
MINNESOTA										
1. April 23	5:10 p.m.	Olmsted	N	5	220	0	Several	50,000		Barns, outbuildings, silos, windmills, and farm machinery on 4 farms demolished and buildings on several other farms damaged; many trees uprooted. Occurred 7 miles northeast of Rochester.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1948

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
MISSISSIPPI										
1. January 1	2-2:30 a.m.	Attala	NE			1	1	\$50,000		From north Union to Mantee, north of Kosciusko. Storm moved over generally wooded areas to Mantee. One death and injury occurred. Approximately 10 homes destroyed and several outbuildings and barn.
2. February 13	12:30 p.m.	Newton	NE		100	5	25	100,000		Tornado passed east of Newton, destroying about 30 homes and a hangar, and cutting a freight train into 2 parts.
3. February 13	11 a.m.	Lawrence	NE			0	0	15,000		Destroyed 2 homes and many trees about 12 miles south of Monticello.
4. March 30	10:20 p.m.	Tallahatchee	NE		(2)	0	0	5,000		Destroyed 1 residence and numerous trees at Charleston. Apparently short-lived, touching ground at only a few points.
5. March 30	11 p.m.	Lafayette	NE		(2)	0	0	5,000	\$5,000	Struck small community of Yocona near Oxford. Several residences, barns and other outbuildings damaged. One barn set afire by lightning. Stored corn damaged by rain.
6. November 5	5 a.m.	Yazoo	NE	15	100	9	39	445,000	5,000	Ninety-five buildings destroyed, 35 damaged at Benton.
7. November 5	6:30 a.m.	Tippah	N		150	1	13	100,000		Twenty-four buildings destroyed, 2 damaged at Ripley.
*8. November 5	3 a.m.	Warren	ENE	120		0	0	(4)		Believed to be same tornado which passed thru Rapides and Catahoula Parishes in Louisiana. Damage mostly to trees and roofs, near Vicksburg. Degenerated to high winds.
9. November 16	7:30 p.m.	Calhoun	NE	30	150	0	25	250,000		Fifty-five buildings destroyed at Calhoun City.
MISSOURI										
1. March 19	5 a.m.	Caldwell	NE	2	220	0	0	15,200		Eleven farm buildings damaged in Easterville community. One residence and bell tower of Easterville church damaged. Some chickens killed.
*2. March 19	5:30 a.m.	St. Charles	NE		440	0	0	(5)		At Defiance power and telephone lines blown down. Some 50-year old hickory trees uprooted and signboards downed. Many farm buildings destroyed; some plate-glass windows blown in. Crossed into Illinois.
3. March 19	6 a.m.	Washington	NE		440	4	20	(5)		Damage heavy; occurred in southern part of county; several homes destroyed; hardest hit was Belgrade, Belleview and Concord Townships. Many chickens and several head of livestock killed. Electric and telephone lines damaged.
*4. March 19	6:15 a.m.	St. Francois	NE	1	440	0	18	200,000		Storm struck Settleton (north part of Bonne Terre); 20 homes destroyed and 30 more damaged. Some parked automobiles smashed; trees uprooted; and telephone and telegraph poles broken. More than 150 buildings, including barns, garages and outbuildings damaged. Crossed into Illinois.
5. March 19	6:50 a.m.	Franklin	NE	16	220	0	18	244,700	5,300	From near Beaufort thru Jeffreysburg to east of Union. Nearly everything in path damaged or destroyed. Storm struck first 3 miles west of Sullivan, where damage slight. Turned north and wrecked home, barn, and outbuildings near Noser's Mill, then turned east and damaged a number of homes, barns and outbuildings. Utility lines downed over large area.
*6. March 26	1:45 p.m.	St. Charles	NE		100	0	2	65,000		Damage confined to Smartt Field, a deactivated Navy field. 3/4-ton pick-up truck tossed 75 feet against wrecked building. Storm moved into Illinois.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1948

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
MISSOURI (Cont'd.)										
7. March 30	6:30 p.m.	Taney	NE	10	2,200	0	0	\$15,300	\$1,000	Storm occurred at Ozark Beach. Two houses, 3 tourist cabins and 3 barns destroyed. Several other barns and outbuildings damaged. Minor damage to several other buildings; 2 cows killed.
8. April 6	9:20 p.m.	Randolph			335	0	1	50,000		Storm at Higbee over an area of about 3 city blocks square in center of town, with greatest damage over 2 blocks. About 200 houses and store buildings damaged. Many window panes blown out. Some large plate-glass windows broken. Injury caused by flying glass.
9. May 1	9:35 p.m.	Cole	E	1/2	440	0	2	500,000	(4)	Some livestock and poultry killed or crippled; several homes completely unroofed. Nearly every house in town of 200 people damaged. Several houses twisted on foundations. Storm in and around St. Thomas. Heavy hail preceded tornado by an hour or two.
10. May 10	2 a.m.	Webster	NE			0	0	5,000		Probably a small tornado hit southern part of March Field, where several houses damaged; some trees uprooted and some power and telephone wires downed.
11. June 20	8 p.m.	Boone			130	0	1	5,000	(4)	Three homes and outbuildings damaged near Ashland; some damage to trees and wires.
MONTANA										
1. May 20	5:45 p.m.	Yellowstone				0	0	0		Funnel reached ground only briefly in uninhabited area.
2. July 10	Late afternoon	Meagher			176	0	0	8,000		One house destroyed; 14 head of cattle killed by lightning. Hail 1 inch in diameter.
3. July 19	Late afternoon	Jefferson and Broadwater	E			1	0	30,000	38,000	Tornado development occurred near Three Forks. One hailstone measured 5 1/2 inches in circumference.
NEBRASKA										
1. June 21	3 p.m.	Dawson	NE			0	0	(5)		Tornado occurred in connection with a more extensive windstorm; no separate estimate for tornado.
*2. June 22	3-4 p.m.	Johnson and Otoe	NE		440	1	4	306,000		Most of damage to buildings. Storm passed near Cook and Nebraska City and passed into Iowa.
3. June 22	4 p.m.	Pierce	NE	13	50	0	0	65,000		
4. July 15	2 p.m.	Scotts Bluff	SE	20		0	0	40,000		Hailstorms and washing rains occurred also.
NEVADA										
(None reported)										
NEW HAMPSHIRE										
(None reported)										
NEW JERSEY										
(None reported)										
NEW MEXICO										
(None reported)										
NEW YORK										
(None reported)										
NORTH CAROLINA										
1. March 23	6:16 p.m.	Mecklenburg and Cabarrus	NE	65	25-65	0	1	42,000	1,950	Originated 5 miles north of Charlotte Airport. Most severe damage at Concord, mostly to buildings.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1948

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
NORTH DAKOTA										
(None reported)										
OHIO										
1. January 1	4 p.m.	Clermont, Clinton and Fayette	NE	40	75	0	0	\$100,000		Damage in scattered areas. May have been caused by one tornado which dipped to ground here and there, or by a series of smaller tornadoes. One factory and a number of houses unroofed; several barns and smaller farm buildings destroyed.
2. March 19	Afternoon	Van Wert, Henry and Wood				3	17	3/250,000		Cannery at Ohio City damaged and buildings at duck farm near Bolling Green leveled.
3. March 19	Afternoon	Fayette				0	3	(5)		Damage at Bloomingburg.
4. March 19	Afternoon	Belmont				0	2	(5)		At Bethesda three homes destroyed and about 30 others damaged.
5. March 19	Afternoon	Coshocton				1	0	(5)		Damage at Mohawk Village.
6. May 2	4:45 p.m.	Darke	NE	15-20	1,760	0	0	350,000		Numerous barns and houses damaged; much poultry and some livestock killed.
*7. May 2	Afternoon	Mercer	NE			0	0	(4)		Storm originated in Indiana and moved into Ohio to a point south of Fort Recovery.
8. May 2	6 p.m.	Athens	NE	15-20	850	0	0	(5)		Many barns and houses damaged.
9. June 12	4:30 p.m.	Stark				0	0	(5)		Many trees uprooted; garage and barn demolished in Canton area.
OKLAHOMA										
1. March 18	8 p.m.	Beckham	NE	15	(2)	0	3	35,000		In Delhi, Sayre and Carter communities.
2. March 18	8:30 p.m.	Custer	NE	6	50	0	1	55,000		In Clinton vicinity 7 families homeless.
3. March 18	9:50 p.m.	Kingfisher	NE	4	100	0	0	25,000		In farming area.
4. March 18	10-11 p.m.	McClain	E	6	2,640	0	0	17,000		Accompanied by excessive rains; 5 homes damaged, 2 destroyed.
5. March 18	11:10-11:13 p.m.	Payne	NE	2	200	0	1	50,000		Damage in and near Stillwater. It is possible that tornadoes #1, 2, 3 and 5 could be a single tornado.
6. March 18	10:10-10:22 p.m.	Oklahoma	E	16	880	0	8	10,250,000		Greatest property damage from a single tornado ever noted in Oklahoma. Traveled about 10 miles in 12 minutes. Storm accompanied by hail. Hit Will Rogers Field at 10:10 p.m.; Tinker Field at 10:22 p.m. Most damage to aircraft at Tinker Field.
7. March 25	6 p.m.	Oklahoma	NE	1 1/2	200	0	1	6,100,000		The second tornado to strike Tinker Field within a week. Accompanied by hail 1/2 to 3/4 inch. Eighty-four planes damaged; 35 beyond repair.
8. March 25	6:30 p.m.	Noble	ENE	10	880	0	0	8,000		Three funnel clouds sighted; storm accompanied by hail; 15 persons crowded into one storm cellar.
*9. March 25	8:30-11:30 p.m.	Hughes, McIntosh, Muskogee and Sequoyah	ENE	102	880	13	44	328,250		Tornado moved into northern Crawford County, Arkansas. Advanced in a hit and skip fashion at rate of about 34 m.p.h.
10. March 25	9 p.m.	Delaware	NE	1		0	0	11,250		One home, 6 other buildings damaged or destroyed.
11. March 25	9:45 p.m.	Muskogee	NE	2	200	0	2	100,000		Tornado funnel seen by several persons.
12. May 1	9:15-10:15 p.m.	Rogers, Craig, Delaware	E	35	50-100	4	200	250,000		Accompanied by high wind and hail. More than 60 homes damaged or destroyed.
13. May 3	12:30-3:10 p.m.	Murray, Johnston and Atoka	SE	55	600-880	0	3	291,000		Accompanied by hail. Path over thinly populated ranch country.
14. May 5	6:15 p.m.	Pittsburg	NE	4	100-880	0	1	45,000		Many houses unroofed, 5 blown down.
15. May 15	9 p.m.	Grady	E	2	440-1,760	0	0	15,000		Accompanied by hail.
16. June 20	3:45 p.m.	Washington		1/5	50	0	0	5,500		Damage to buildings at Hulah Dam.
17. June 20	5:30-6 p.m.	Tillman and Comanche	NE	20		0	0	22,000		Some damage to aircraft at Fort Sill; path very ragged.
18. June 21	Midnight to 1 a.m.	Noble			(2)	0	0	10,000	(5)	Damage to a large barn and to ripened uncut grain near Perry.
19. June 21	3:45 p.m.	Tulsa	NE	10	220	0	0	13,000		Damage to aircraft and hangars. Funnel observed by many persons.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1948

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
OREGON										
(None reported)										
PENNSYLVANIA										
1. March 19	7:30 p.m.	Westmoreland				0	3	\$100,000		Over 12 homes damaged; plants wrecked; power and telephone wires downed. Damage at Mt. Pleasant.
2. June 27	Afternoon	Luzerne				0	0			Many roofs, billboards, tree limbs and buildings damaged at Hazleton.
3. July 5	Evening	Franklin				0	0	10,000		Section of new wall damaged, many shade trees and plantings at Wilson College Campus twisted off. Occurred at Chambersburg.
RHODE ISLAND										
(None reported)										
SOUTH CAROLINA										
1. April 1	4:40 a.m.	Beauford			900	0	3	75,000		At Hardeeville tourist camp, planing mill and several houses destroyed.
2. April 7	5:45-8:15 p.m.	Saluda, Aiken and Richland			900-1,800	0	0	37,000		Accompanied by severe thunderstorm and hail. Tornado at Salley and Pontiac.
SOUTH DAKOTA										
1. April 24	3:15 p.m.	Minnehaha		4	(2)	0	0	10,000		Tornado west of Sioux Falls inflicted much damage and wrecked several farm buildings.
2. April 24	4:10 p.m.	Minnehaha	NE		(2)	0	0	40,000		Tornado southeast of Sioux Falls wrecked farm buildings and town property in Brandon.
3. April 24	Afternoon	Hamlin	NE		(2)	0	0	(5)		Tornado from south of Castlewood to near Goodwin wrecked several buildings, uprooted several trees, and broke windows.
TENNESSEE										
1. March 26	9:45 p.m.	Maury		17	200	0	2	700,000		About 20 homes damaged, 3 homes destroyed. Many barns and out-buildings damaged or destroyed. One church demolished; one store leveled; trees uprooted. Occurred at Monsanto.
2. March 29	P.m.	Hamilton				0	0	1,000		Occurred in west Nashville; damaged 2 homes and power and telephone lines. From Yokley community to Southport. Wires blown down; tobacco damaged when barns blown apart. Church unroofed and 8-10 houses and barns damaged.
3. June 26	3:30 p.m.	Davidson			100	0	0	2,000		
4. November 5	1 p.m.	Giles and Maury		3				6,400	\$5,000	
TEXAS										
1. February 26	8:30 p.m.	Runnels	N			0	0	100,000		Bruce Field hangar destroyed; 8 planes damaged. Near Ballinger.
2. February 26	10 p.m.	Eastland	N	11	(2)	2	0	(5)		One home destroyed; barn unroofed; filling station and store damaged near Ranger.
3. February 26	10:25 p.m.	Throckmorton	NE	1	200	0	8	75,000		Thirty-two homes damaged, with 7 completely destroyed near Woodson.
4. February 26	Evening	Denton			(2)	1	0	(5)		Woman pinned in wreckage of her home burned to death. Storm occurred 7 miles west of Lewisville in Bartonville community.
5. March 1	12:30 p.m.	Henderson	NE	7	300	0	6	150,000		Five homes destroyed, 9 damaged. Light hail; automobile with 2 occupants tossed 150 yards. Principal property damage in Opelika community 3 miles west of Brownsboro.
6. March 1	1:30 p.m.	Kaufman	NE	3/4	100	0	0	10,000		Principal damage to buildings in Mabank. Moderate hail.
7. April 9	3:15 p.m.	Harris	NE	1/4	600	0	0	30,000		Occurred 7 miles north-northwest of center of Houston.
8. May 3	1:55 p.m.	Montague	E	1/2	100	0	0	1,000		One home destroyed in Nocona.
9. May 3	3 p.m.	Collin	SE	7	100	3	43	2,000,000		Damage to homes and 1 factory at McKinney.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1948

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
TEXAS (Cont'd.)										
10.May 5		McCulloch				0	0	\$50,000		Occurred 25 miles northeast of Brady, near Mercury. Two houses and a barn blown away; damage to livestock and farm equipment. Buildings and airport damaged.
11.May 29	7:10 p.m.	Dawson	SW			0	0	100,000		Near Lamesa. Farm buildings damaged at Putnam. Outbuildings damaged.
12.July 4	10 a.m.	Callahan	NE		50	0	0	1,000		Outbuildings damaged at Dalhart.
13.July 11	4:15 p.m.	Haskell	SE	4		0	0	1,000		Damaged 3 hangars; scattered 25 airplanes; 10 planes completely demolished at Cuero Airport.
14.July 27	9:30 p.m.	Dallam	E			0	0	1,000		
15.August 1	4 p.m.	De Witt				0	0	25,000		
UTAH										
(None reported)										
VERMONT										
(None reported)										
VIRGINIA										
1. June 7	3-3:30 p.m.	Middlesex	NE	8	400	0	0	2,000	\$10,000	In Syringa area; shed demolished; garage moved, twisted and roof blown off; trees uprooted; path of destruction only 70 yards wide.
WASHINGTON										
(None reported)										
WEST VIRGINIA										
1. May 2	8:30-9:30 p.m.	Doddridge and Harrison	ENE	22	35-100	4	75-80	250,000		Thirty-eight homes destroyed as result of lightning and high wind; also 1 church and undetermined number of farm buildings demolished; lesser damage to other homes, churches, schools and farm buildings; hailstones up to 8 inches.
2. June 19	10 p.m.	Grant	E	16		0	0	(5)		Considerable damage to farm buildings; some livestock killed; much timber blown down.
WISCONSIN										
1. July 29	5:15 p.m.	Grant	NE		(2)	1	1	25,400		Demolished farm buildings near Lancaster.
2. July 29	5:25 p.m.	Iowa	NE	1	333	0	0	10,000	1,100	Destroyed 1 barn, damaged 6 smaller buildings; injured 3 head of livestock. Blew down trees; damaged oats and corn near Linden.
3. July 29	6 p.m.	Dane	NE	2	133	1	11	20,850	650	Funnel cloud touched ground 3 times; demolished house; wrecked barn and garage; damaged another barn and several other buildings; killed several hundred chickens; damaged corn, grain and hay. Occurred near Springfield Corners. Trees uprooted, disrupting communication line.
4. July 29	6:30 p.m.	La Crosse	NE		5	0	0	500		
WYOMING										
1. May 29	2:30 p.m.	Laramie			100	0	0	10,000		Farm buildings destroyed about 10 miles north of Cheyenne.
2. June 17	2 p.m.	Converse and Niobrara	E	15	7,040	0	0	50,000	50,000	Farm buildings destroyed; serious damage to crops.
3. July 14		Niobrara				0	0	0		Funnel sighted near Kirtley but did not reach ground.
4. July 18		Converse			800	0	0	(4)		Slight damage to sheep camp and standing timber near Glenrock.

See reference notes at end of table.

TORNADO DATA

YEAR 1949

Table 5

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
ALABAMA										
1. February 19	9 a.m.	Covington	E	(1)	100	0	5	\$8,000		Two houses destroyed; 3 miles southwest of Red Level. Reached ground at one spot, lifting away roof and most of ceiling of house, east of Montgomery. Damaged greenhouses and nursery stock. Near Hackneyville; 2 houses destroyed; 1 house, in which were 10 persons, was lifted into the air and smashed into the second house, killing all 10 occupants. Tornado first reported at Fairview, west of Easley; 3 persons killed at Easley and the other near Oneonta. Tornado moved to Tate's Gap before lifting; 84 buildings damaged, 32 completely destroyed; livestock killed. Tornado hit top of ridge at Henagar; 3 homes destroyed.
2. August 30	4:20 p.m.	Montgomery	SSE	(1)	50	0	0	3,000		
3. November 24	4:30 p.m.	Tallapoosa	E	3	100	10	0	3,000		
4. November 24	5:15-5:30 p.m.	Blount	E	15	100	4	44	131,000		
5. November 24	6 p.m.	De Kalb	E	(1)	100	1	5	10,000		
ARIZONA										
(None reported)										
ARKANSAS										
*1. January 3	3:15 p.m.	Columbia, Union, Ouachita, Calhoun, Bradley, Drew, Lincoln	NE	145	300-500	57	418	1,317,920		Tornado first sighted 10 miles north of Shreveport, Louisiana; not in continuous contact but made numerous contacts along its course. Hardest hit sections vicinity of Warren in Bradley County, where 55 were killed; 120 houses destroyed, 72 suffering major damage, 150 minor damage. 2,700 acres of timber damaged in 5 separate contacts. Principal damage at Grapevine, Grant County, where 2 persons injured; 4 houses destroyed, 1 damaged, and 7 automobiles and trucks damaged. Deflection by hill country probably reduced potential destruction. First reported northwest of Arkadelphia and last contact in Pulaski County near Pinnacle mountain. Two houses damaged 2 miles north of Banks. Destroyed a house, garage and 2 chicken houses near Tontitown. Storm first struck Whelen Springs, Clark County; moved to Harrisburg, Poinsett County. Ten counties hit; 111 homes destroyed, 90 damaged; 186 other buildings destroyed or damaged. Storm accompanied by torrential rains and hail. Unroofed cotton gin house; damaged several homes; uprooted trees at Marked Tree. Considerable damage to houses and barns; about 15 buildings destroyed near Providence. Principal damage at Cross Roads community, 3 1/2 miles northwest of Bradford. Principal damage to eastern edge of town of Clinton and east of town. Considerable damage to houses, barns, hay and corn crops. Some loss of poultry and livestock.
2. January 3	4 p.m.	Dallas, Cleveland, Grant	NE	50	100-200	0	2	15,700		
3. January 3	4 p.m.	Hot Spring, Garland, Saline, Pulaski	NE	60	100-200	0	0	12,000		
4. March 9	10:30 a.m.	Bradley			100	0	0	1,000		
5. March 26	6 a.m.	Washington	NE		20	0	0	2,500		
6. March 26	2:30 p.m.	Clark to Poinsett	NE	181	500	19	152	(5)		
7. May 21	9:30 p.m.	Poinsett			400	0	0	3,000		
8. December 11	2:46 p.m.	White	NE	4 1/2	660	1	7	50,000		
9. December 11	3 p.m.	White				4	4	2,000		
10. December 11	1:15 p.m.	Van Buren	NE		220	0	0	75,000	(5)	
CALIFORNIA										
1. May 17		Fresno				0	0	1,000		Occurred 10 miles northwest of Fresno.
COLORADO										
*1. May 20	12:45 p.m.	Yuma	E		440	0	0	200,000		Formed about 8 miles south of Wray.

See reference notes at end of table.

TORNADO DATA

Table 5--Continued

YEAR 1949

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
COLORADO (Cont'd.)										
*1. May 20 (Cont'd.)										Tornado struck at various points eastward; moved over Colorado-Nebraska border, destroying many farm buildings in its path.
2. June 17	5:30 p.m.	Yuma	NE	25	880	0	0	\$15,000	\$10,000	Storm first struck 15 miles southwest of Yuma; moved in a semi-circle to northeast; many farm buildings destroyed.
CONNECTICUT										
1. August 11	3 p.m.	Fairfield	ENE	5	50	0	0	(4)		Small twister passed thru sparsely settled small area. Only damage destruction of trees.
DELAWARE										
1. October 31	6:15 a.m.	Sussex				0	2	16,500		Two dwellings wrecked beyond repair; 5 others damaged extensively. Several barns and chicken houses flattened; 5 tractors damaged; occurred at Newmarket.
DIST. OF COLUMBIA										
(None reported)										
FLORIDA										
1. February 27	3 p.m.	Sarasota	NE	1/2		0	0	1,000		Wrecked a garage and damaged a dwelling and another garage 5 miles east of Sarasota.
2. March 14 & 15	Midnight	Pasco		3/4		0	0	8,000		Destroyed barn and contents; twisted off pine trees; occurred at Dade City.
3. March 14 & 15	Midnight	Lake				0	0	3,000	12,000	Storm path broken into at least 3 sections; citrus trees uprooted; roof of one house damaged; power lines broken; occurred at Hovey-in-the-Hills.
4. March 18	1:22-1:25 p.m.	Columbia	NE	5	(2)	0	0	0		Path thru open country near Lake City.
5. March 31	9 a.m.	Okaloosa	NE	2	20	0	1	2,000		Buildings damaged; trees uprooted and twisted off at Niceville.
6. April 3	2:30 p.m.	Clay				0	1	10,000		One home destroyed, 6 damaged; 2 other buildings destroyed; 2 damaged at Starke.
7. May 10	2:45 p.m.	Dade				0	0	0		Cloud did not reach ground; noted 5 miles northwest of Royal Palm Ranger Station in Everglades National Park.
8. June 18		Taylor		(1)	50	0	0	(5)		A few trees broken and twisted off near Secotan.
9. July 20		Madison				0	0	500		Chicken brooder with 100 chickens destroyed; roof damaged at Cherry Lake, 10 miles north of Madison.
10. August 12	8 a.m.	Pinellas	NE	1 1/2	35	0	0	100		Slight damage to 1 home; some trees broken; telephone service interrupted near Tarpon Springs.
11. September 9	4:13 p.m.	Monroe	WSW	1 1/2	(2)	0	0	0		Small waterspout passed over Key West Airport Station.
12. November 14	3:20 p.m.	Volusia	NNE	(1)		0	0	40,000		Broke glass in store front; wrecked packing sheds and ferneries; near Pierson.
GEORGIA										
1. April 12	5:25-5:45 p.m.	Walker	ENE	2-3	100	0	0	3,000		Storm moved thru rural area near Flintstone, blowing down many trees and some power and telephone lines; one home heavily damaged, with moderate to severe damage to roofs of several other houses.
2. April 12	6:30-6:35 p.m.	Meriwether	NNE	2	100	1	20	150,000		Struck first on Pine Mountain; lifted, then dipped to earth several times, moving thru business and residential areas of Manchester; gasoline service station demolished; 25 homes and 7 other buildings destroyed; 5 business houses heavily damaged; 15 homes and 15 other buildings damaged. Many trees, power and telephone lines downed; power and telephone services disrupted.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1949

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
GEORGIA (Cont'd.)										
3. April 12	7:10-7:15 p.m.	Pike	NE	8	300-400	1	3	\$126,000		Moved thru portion of Zebulon, destroying 2 business houses, 10 homes and 42 smaller buildings. Moderate to heavy damage to about 100 other buildings. High winds broke off courthouse tower; downed many trees, power and telephone lines, disrupting services.
4. April 12	7:30 p.m.	Spalding	E	1	100	0	5	35,000		Two sections of Griffin hit; water tower blown down; interior damage to textile mill; storm lifted, then struck again a short distance to east, heavily damaging a church and moderate to severe damage to 25 homes and numerous small buildings.
5. April 12	7:45 p.m.	Henry	E	(1)	(2)	2	5	15,000		Storm struck small area in Bethany community near McDonough. A large home, tenant house and several smaller buildings destroyed; 4 others damaged.
6. April 12	9 p.m.	Newton	NE	(1)	(2)	0	0	25,000		Struck near Covington; 3 homes and 16 other buildings destroyed; 6 homes damaged; a number of trees, telephone and power lines blown down.
IDAHO										
(None reported)										
ILLINOIS										
1. March 30	9:15 p.m.	Jersey and Macoupin	NE	10	440	0	0	35,000		Originated near Kemper. Moved to 1 mile west of Reeder; heaviest damage to buildings on 5 farms 2 miles west of Chesterfield; at Kemper, roofs of 5 buildings damaged; light hail.
2. May 21	4:30 p.m.	Brown	NE	12	200	0	0	40,000		Storm first struck 4 miles southwest of Mt. Sterling; moved thru rural section; 8 farm properties hit; several barns destroyed or damaged; several homes badly damaged.
*3. May 21	4:55 p.m.	Madison	NE		500	5	60	1,300,000		Storm originated in Missouri, north of St. Louis; passed thru Wood River, Illinois.
*4. May 21	5 p.m.	Crawford	NE	3	50	4	7	70,000		Struck west of Palestine, demolishing restaurant, water-pumping station and 3 houses; damaged about 20 other buildings. Passed into Indiana.
5. December 11	3 p.m.	Madison	NE		100	0	0	5,000		Several farm buildings damaged in northern part of county.
6. December 11	4 p.m.	Christian and Shelby	NE	7	100	0	1	20,000		Several homes badly damaged in Pana; a number of farms near Dollville struck.
INDIANA										
1. February 14	9:30 p.m.	Montgomery	SE	1/5	230	0	0	600		Occurred in New Ross.
2. February 15	12:10 a.m.	Gibson and Pike	E	15	440	0	2	50,000		Moved thru Oatesville and Glezen.
3. April 14	6:30 p.m.	Greene	NE	1/2	15	0	0	5,000		Northwest of Linton; small funnel seen.
*4. May 21	5 p.m.	Sullivan and Clay	NE		150	14	251	990,000	\$10,000	Moved into State from Palestine, Illinois; thru Shelburn, Clay City, Bowling Green, Poland and Lewis. Complete destruction of houses in storm path.
5. May 21	5:15 p.m.	Vigo	NE		200	3	5	500,000		Began in extreme edge of Terre Haute; moved to just southwest of village of Burnett.
6. May 21		Jay		3	440	0	0	10,000		
IOWA										
1. May 16	Late afternoon	Guthrie				0	0	(5)		Swept thru 4-block area in northern part of Stuart, wrecking a church, damaging 1 home and 5 barns. About 3 inches of rain accompanied storm.
2. May 21	4 p.m.	Van Buren	N	1/2	440	0	0	30,000		In neighborhood of Pittsburg, a small community 3 miles north-

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1949

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
IOWA (Cont'd.)										
2. May 21 (Cont'd.)										
3. June 1	6:15 p.m.	Page	NE	10	100-200	0	4	\$150,000	\$50,000	west of Keosauqua; 8 houses damaged and several barns and smaller buildings. Began 3 miles east and 1 mile south of Shenandoah; passed across southeastern Bingham. Several funnels observed.
KANSAS										
1. January 3	2 p.m.	Wilson and Neosho	NE	15	150	0	1	120,000		Variable damage to 55 buildings from 4 miles northeast of Altoona to a short distance southwest of Petrolia.
2. January 3	2:30-3 p.m.	Anderson	NE	25	100	0	0	45,000		Two rural residences and many other buildings destroyed between Colony and Bush City; cattle killed.
3. January 3	3-3:30 p.m.	Franklin	NE	3	200	0	0	500		Intermittent path near Richter; rural buildings damaged.
4. February 12	9:30 p.m.	Labette	NE	9 1/2	200	0	0	5,500		Rural property damaged near Edna.
*5. March 30	4:15 a.m.	Cowley	NE		1,200	0	2	10,000		Buildings demolished on farm 2 miles south and 2 miles east of Dexter; livestock killed.
6. April 26	12:30 p.m.	Greenwood				0	0	0		Vortex cloud 3 miles west and 1 mile north of Climax; dipped to ground twice.
7. April 26	4:10-5:30 p.m.	Hamilton, Kearney, Finney				0	0	0		Tornado clouds in connection with severe hailstorm. Apparently did not reach ground.
8. April 30	2-2:30 p.m.	Kearney and Finney	NE	30		0	0	10,000		Rural property damaged from north of Lakin along path ending 20 miles northeast of Garden City.
9. April 30	3:30 p.m.	Logan	E	2		0	0	2,500		Minor building damage in Oakley. Path poorly defined.
10. April 30	6 p.m.	Hodgeman		5	880	0	0	(4)		Damaged 3 farmsteads 14 miles southeast of Jetmore.
11. May 13	3:45-6 p.m.	Sherman	W	4		0	0	500		Four distinct funnels; 2 reached ground in area 7 miles northeast of Goodland. Fences destroyed.
12. May 15	11:30 p.m.	Pawnee		(1)		0	0	(4)		Damage 1 mile east of Larned to 1 farmstead.
13. May 18	12:30-1:10 a.m.	Labette and Cherokee				0	0	(4)		Small tornado associated with high winds.
14. May 18	6:45 p.m.	Harvey				0	0	0		Did not reach ground.
15. May 18	Evening	Harper and Sumner				0	0	0		Several funnels which did not reach ground observed near Wellington and Kiowa.
16. May 18	7:22 p.m.	Butler				0	0	0		Vortex cloud observed 12 miles northeast of El Dorado.
17. May 18	8:30 p.m.	Marshall	NE	(1)	100	0	0	500		Small twister originated just west of Marysville and jumped to northeastern section of town.
18. May 20	4-6 p.m.	Scott and Lane	NE	35		0	0	100,000	(5)	Farm buildings and crops damaged from 12 miles southwest of Scott City to 6 miles northeast of Healey.
19. May 20	Late afternoon	Rawlins, Decatur, Cheyenne, Thomas				0	0	(4)		A number of small tornadoes. Losses generally confined to smaller farm buildings, power and communication lines.
20. May 20	6:37 p.m.	Gray, Ford, Hodgeman, Pawnee	NE			0	Several	175,000		Numerous irregular paths of destruction from Copeland into western Pawnee County. Four funnels seen near Dodge City.
21. May 20	7:30 p.m.	Comanche	NE	19	100	0	0	200,000		Injuries occurred at Rozel. Path extended from 7 miles southwest of Coldwater to Wilmore, where damage especially severe.
22. May 20	7:45 p.m.	Lincoln	NE	4		0	0	8,000		Storm passed north of Coldwater. Began a mile southeast of Lincoln; windmills and small buildings demolished.
23. May 20	8-8:30 p.m.	Saline and Dickinson	NNE	23	440	1	5	35,000		Moved from southwest of Gypsum to northeast of Solomon. Damage to rural property and residences in Solomon.
24. May 20	9 p.m.	Sumner				0	0	(5)		Damage to buildings on several farms 9 miles southwest of Wellington.
25. May 20	8:40 p.m.	Rice	E	1	880	0	1	(4)		Moved along main street of Chase; a few buildings damaged.
26. May 20	9-9:30 p.m.	Dickinson and Geary	NE	30	(2)	0	0	(5)		Losses to rural property from near Hope to a few miles north of Junction City.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1949

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
KANSAS (Cont'd.)										
27.May 20	9:30-11:30 p.m.	Lyon and Wabauunsee	NNE	30	300	0	1	\$75,000		Storm identified by peculiar roar; rural property damaged from northwest of Emporia to area northeast of Harveyville.
28.May 23	Afternoon	Finney		(1)		0	0	0		Two funnel clouds observed south of Garden City.
29.May 31	6:20 p.m.	Riley	NE	8	130	0	0	15,000		Principal damage to buildings on 1 farm. Path extended from 8 miles west of Manhattan to 5 miles north.
30.May 31	11:20 p.m.	Johnson	NE		440	0	0	15,000		Path jumped from southwestern corner of Gardner to Olathe, where further building damage occurred.
31.June 1	7:15 p.m.	Nemaha	NE	15	450	0	0	75,000		Well-developed, long, slender, funnel-shaped cloud destroyed rural buildings east of Baileyville to near Bern.
32.June 3	1:30 p.m.	Sumner		(1)	(2)	0	0	1,500		Damage to large barn 6 miles northwest of Wellington.
33.June 7	2 p.m.	Osage				0	0	5,000		Barns and other farm buildings damaged 4-5 miles north of Quenemo.
34.August 12	Evening	Finney	NE			0	0	(4)		Struck ground about 1/4 mile south of Arkansas River on Highway 83.
*35.September 12	4:45 p.m.	Linn	SE	3	400	1	0	35,000		Originated 6 1/4 miles east and 1 1/2 miles south of La Cygne. Passed into Missouri.
36.October 9	1:30 p.m.	Reno	NNE	5	440	0	0	(4)		Path extended from 1 mile west to 5 miles north of Hutchinson.
37.October 9	3:30-4 p.m.	Pawnee and Rush	NNE	13	3,520	0	0	(5)	(4)	Small tornado and high wind caused damage to rural buildings and crops along intermittent path between Rozel and Rush Center.
38.October 9	4 p.m.	Rush	NNE	18		0	0	38,000		Small tornado associated with area of high winds from south of Rush Center to northeast of La Crosse.
39.October 9	Afternoon	McPherson				0	0	(5)		One cloud observed west of McPherson, the other near Mound Ridge. Damage to 2 oil derricks and various buildings.
40.October 9	11 p.m.	Rush				0	0	(5)		Principal damage to farm buildings northeast of Bison; minor losses southeast of city. Combined with severe wind.
41.October 9	11:30 p.m.	Reno	NE	25	440	0	0	50,000		Began near Lerado; dissipated 5 miles west of Hutchinson; principal damage to buildings.
42.October 20	3 p.m.	Jackson	NE	5	880	0	0	10,000		Losses occurred to rural buildings from 2 miles southwest to 3 miles northeast of Hoyt.
KENTUCKY										
1. March 26	7:45 p.m.	Marshall and Calloway	NE	5 1/2	200	0	2	19,400		Four houses, 10 barns and 12 small outbuildings demolished; many others damaged in Dexter and Hardin communities. Three hundred poultry killed.
2. March 26	9 p.m.	Muhlenberg	NE	2	50	0	2	20,000		Four dwellings, 2 barns and many outbuildings demolished; 5 houses, 8 barns and 2 automobiles damaged at New Cypress, near Graham.
3. May 21	12:30 p.m.	Estill	NE	6	150	0	4	10,000		Many chickens killed. Two dwellings, 3 barns and several outbuildings damaged at Witt Springs; wires downed; some baby chicks lost.
4. May 22	2 a.m.	Pulaski	NE	10	440	1	0	746,000	\$4,000	Several dwellings badly damaged. A large tobacco warehouse and wholesale grocery store completely destroyed; 2 large garages damaged. Occurred at Somerset.
LOUISIANA										
*1. January 3	2:45-4 p.m.	Caddo, Webster, Claiborne	NE	47	100-500	1	21	140,000		Twenty homes and buildings destroyed; 11 homes and buildings severely damaged. Developed near Dixie; moved thru Webster and Claiborne Parishes into Arkansas; struck Sarepta and Gordon near Haynesville, Louisiana; followed closely path of December 31, 1947 tornado.
2. January 3	5 p.m.	Lincoln, Union	NE	(1)	50	1	14	95,000		Nineteen homes and buildings destroyed in Choudrant and Downs-ville.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1949

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
LOUISIANA (Cont'd.)										
3. March 9	11:30 a.m.	Beauregard	NE	(1)	50	0	1	\$18,000		Fifteen homes and 1 building damaged at De Ridder.
4. March 21	Noon	Rapides and La Salle	NE	20		0	2	55,000		One home destroyed, 14 damaged; 11 other buildings destroyed.
*5. March 24	10 p.m.	Carroll	NE	15	100	0	2	63,000		Seventeen buildings and homes destroyed, 17 damaged. Storm developed near Oak Row, moved into Mississippi.
6. May 1	5 p.m.	Claiborne	NE	(1)		1	12	25,000		Occurred near Homer; 5 homes and 4 barns destroyed.
7. July 20	4:30 p.m.	Jefferson Davis	NE	(1)	(2)	0	0	50,000		Church, homes and barns destroyed.
8. July 23		Caddo	NE			0	0	0		Funnel observed 15 miles northwest of Shreveport.
9. December 10	6:15 p.m.	Winn	NE	(1)	10	0	1	15,000		Passed near Calvin community; 1 home destroyed, 4 others seriously damaged; several outbuildings damaged.
MAINE										
(None reported)										
MARYLAND										
(None reported)										
MASSACHUSETTS										
(None reported)										
MICHIGAN										
1. August 30	11 a.m.	Newaygo	E	3		0	0	3,000	\$7,000	Developed 1 mile north of Grant. Funnel type cloud preceded by 1/2 inch hail and heavy rain. Some buildings blown down.
MINNESOTA										
1. July 2	7 p.m.	Koochiching				0	0	15,000		Five barns wrecked or damaged; communication and power lines disrupted; trees uprooted; a small funnel cloud observed at Birchdale.
MISSISSIPPI										
1. January 18	4 p.m.	Lowndes	NE	(1)	(2)	2	17	100,000		Twenty-three buildings, including 2 cotton gins, destroyed at Caledonia.
2. March 21	Early p.m.	Walthall and Lincoln	N	(1)	50	0	1	5,000	5,000	Injury occurred at Fair Oak Springs; 1 home and 2 other buildings destroyed.
3. March 21	Early p.m.	Yazoo, Humphries and Holmes	NE	40	100	1	19	50,000	50,000	Twenty-one buildings destroyed, 117 damaged.
*4. March 24	11-11:30 p.m.	Washington and Sunflower	NE	75	100	7	67	250,000	45,000	Eighty-one homes and buildings destroyed, 104 damaged. Moved into Washington County from Louisiana.
5. March 25	8 p.m.	Tippah	NE	(1)	(2)	0	1	25,000		One home and 3 other buildings destroyed; 5 homes and 14 other buildings damaged.
6. March 25	8 p.m.	Itawamba	NE	(1)	(2)	0	0	52,000		Fourteen buildings destroyed, 28 damaged.
7. March 26	6:45-8:45 p.m.	Webster, Calhoun, Pontotoc, Lee, Prentiss	NE	90	200	2	33	527,000	100,000	New \$60,000 school destroyed; greatest damage at Beldon and Chesterfield.
8. May 1	6 p.m.	Chickasaw	NE	(1)	(2)	0	0	25,000		Passed over sparsely settled area north of Houston to near Okolona. Damaged several homes and numerous trees.
9. May 1	6 p.m.	Yalobusha	NE	(1)	(2)	0	0	100,000		West of Yalobusha near Water Valley.
MISSOURI										
1. February 14	11:30 p.m.	Mississippi			16	0	Several	13,500		A number of homes, buildings and outbuildings damaged or destroyed; power lines broken. Struck Hough Station and Big Lakes vicinities 5 to 7 miles northeast of Charleston.
2. March 26	4:30 p.m.	Bollinger				0	7	1,000		Storm struck in thinly populated community. Damaged homes and outbuildings.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1949

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
MISSOURI (Cont'd.)										
3. May 8	5:30 p.m.	Jackson			50-100	0	0	\$1,500		Slight damage to several homes and barns; trees blown down; other minor damage. Occurred on south-eastern edge of Kansas City.
4. May 9	2:30 p.m.	St. Louis	NE	3		0	0	(5)		Trees uprooted; section of barn blown into Missouri River; struck in Columbia bottom areas, near Confluence, Missouri and Missis-sippi Rivers.
5. May 19	3:45-4:20 p.m.	Butler, New Madrid, Dunklin, Stoddard	SE	45	880-3,520	1	60	855,000	\$25,000	Extensive damage to business places, churches and power plants; 49 homes destroyed, 287 damaged; 130 barns destroyed, 115 damaged.
6. May 21	4:30 a.m.	Wright	NE		440	0	0	(5)		Damage mostly to trees; 1 home damaged; 2 barns, a garage and chicken house also damaged. Occurred near Mountain Grove.
7. May 21	3:30 p.m.	Pike and Lincoln	SE	20	350	1	20	200,000		Very little damage in Lincoln County; 14 homes destroyed; 31 other buildings destroyed and 26 damaged near communities of New Hartford, Ashley, Cyrene and Clarksville.
8. May 21	5:45-6:30 p.m.	Bollinger and Cape Girardeau	E		250	1	6	(5)		Seven homes destroyed, 6 damaged; 7 barns and 14 other types of building destroyed. Death occurred near Marble Hill.
*9. May 21	4:30-4:50 p.m.	Franklin and St. Louis	ENE	50	150	0	2	494,000	6,000	Originated near Washington. Four barns and 21 other buildings destroyed; 3 homes, 1 barn and 11 other buildings damaged. Near Creve Coeur, 25 miles northeastward, storm was next reported. It then struck near southwestern edge of Lambert Field Airport, where trees, buildings and airplanes damaged. It lifted and did not dip to earth again for about 7 1/2 miles, where most of the damage occurred. Continued into Wood River, Illinois.
10. May 21	6:55-7 p.m.	Cape Girardeau	NE	10	200	23	130	3,460,000	40,000	Most destructive tornado in Missouri since that of September 27, 1927 in St. Louis. Two hundred homes destroyed, 231 damaged; 19 business places destroyed, 14 damaged. Practically all damage in west and especially north side of town of Cape Girardeau.
11. June 1	12:02-12:15 a.m.	Cass and Jackson	NE	16-17	450	0	0	87,500	12,500	From 8 miles southwest of Pleasant Hill to 9 miles northeast. Considerable damage to barns and other outhouses; telephone and light wires broken; many trees damaged or destroyed.
12. June 1	12:30-3 a.m.	Howard, Linn, Saline, Randolph, Platte, Cole and Boone				1	1	5,000		Struck Franklin and Nelson communities. Most damage to trees.
13. June 1	Late night	Atchison	ESE			0	Several	(5)		Destroyed and damaged farm buildings about 5 miles southeast of Tarkio.
14. June 2	7 a.m.	Carroll	E			0	0	(5)		One home damaged; a number of power lines and trees broken.
15. June 3	5:20 p.m.	Monroe and Marion	NE			0	0	0		Tornado about 1,000 feet above ground passed over Monroe City.
16. June 7	3:20 p.m.	Green				0	0	25,000		Trees, farms and small business places damaged just west of Springfield.
17. June 24	5-5:15 p.m.	Nodaway		1/2	330	0	0	4,000		Two separate clouds; one never reached ground. Considerable damage to windows, roofs, outbuildings, west and northeast of Maryville.
*18. September 12	5 p.m.	Bates		3 1/2	90-100	1	Several	30,000	8,000	Storm originated in Kansas; struck ground near Amsterdam, Missouri. Farm buildings demolished.
19. October 9	6:05 p.m.	Jackson	NW	1/4	35-65	0	0	5,000		One residence and a few roofs damaged; minor damage to power and communication lines. Occurred in Kansas City.
20. November 11	8:28 p.m.	Buchanan				0	0	30,000		Two large warehouses demolished; roof of one building blown off, and portion of another blown down; occurred at St. Joseph.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1949

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
MISSOURI (Cont'd.)										
21.December 11	12:25 p.m.	Marion		5-6	200	0	Many	\$200,000		Homes and buildings damaged; trees uprooted; automobiles smashed; occurred near Hannibal.
22.December 11	3:45 p.m.	Butler		10	30-440	6	Sev- eral	100,000		Homes and farm buildings destroyed; livestock killed; damage confined to rural area near Poplar Bluff.
MONTANA										
1. July 6		Ferguson				0	0	(5)		Wrecked 1 garage and an oil house at Roy.
NEBRASKA										
1. May 17	5 p.m.	Clay	NE	5	400-600	0	5	102,500	\$3,000	Damaged or overturned buildings and windmills in Leicester Township.
2. May 17	5:30-5:45 p.m.	Boyd	NE	4	170	0	0	10,200		Killed chickens, smashed automobiles, tore down barns and other buildings southeast and east of Butte.
3. May 19	12:05-12:30 p.m.	Morrill	E	4	100	0	0	5,000		Occurred near Northport.
4. May 19	5:30-5:40 p.m.	Chase	SE	4		0	0	30,000		Tornado in southwestern part of county.
*5. May 20	2-2:25 p.m.	Dundy	NE	35	400	0	1	13,100		Originated in Colorado. Demolished buildings on 2 farms; small amount of livestock lost. Near Haigler.
6. June 1	5:40 p.m.	Otoe	NE		100	0	0	20,000		Damage mostly to farm buildings.
7. June 1	8 p.m.	Richardson	NE	6		0	0	400,000		3 1/2 miles west of Nebraska City.
8. June 8	6:42 p.m.	Thayer	NE	1	100	3	7	75,000		Occurred west of Falls City. A brick restaurant demolished and adjoining building damaged at Belvidere.
9. June 12	12:15 p.m.	Brown	NE	1	100	0	0	(4)		Occurred 3 1/2 miles north-northwest of Ainsworth.
10.October 9	9:45 p.m.	Lancaster	N	2	150	1	4	40,250		On northern outskirts of Lincoln 2 houses completely destroyed.
11.October 10	2 a.m.	Cedar	NNW	8	450	0	0	100,000	75,000	Damaged roofs and farm buildings. Several farm buildings destroyed or damaged and several houses slightly damaged west and northwest of Hartington. Corn damaged.
NEVADA										
1. April 18	1 p.m.	Washoe	ENE	12	70	0	0	100		Damage to buildings on dude ranch. Cloud visible from Reno Airport.
NEW HAMPSHIRE										
(None reported)										
NEW JERSEY										
(None reported)										
NEW MEXICO										
1. June 6	3:30 p.m.	Chaves	ESE	12	300	0	0	0		Passed over open ranch land near Roswell.
2. June 6	5:30 p.m.	Halifax	ENE	2	(2)	0	0	0		Passed over pasture land near Cimarron.
NEW YORK										
(None reported)										
NORTH CAROLINA										
1. March 18	4:15 p.m.	Greene				0	0	1,000		At Hookerton.
2. May 26	Noon	Sampson, Johnston and Wayne	E	12	250	0	6	100,000	(4)	First struck 8 miles east of Dunn; moved to west of Newton Grove; passed north of Newton Grove; 6 homes and 82 buildings destroyed.
3. August 28	Noon	Scotland				0	0	(5)		Struck various parts of county. Several trees blown down. Several homes damaged; damage to buildings and machinery; of cotton mill at Springfield.
4. August 28	4 p.m.	Wake				0	0	60,000		One home destroyed; several buildings and homes damaged in Raleigh, Apex and McCullen areas.
5. August 28	5 p.m.	Franklin				0	16	100,000		Two homes destroyed; 25 tobacco barns leveled or badly damaged.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1949

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
NORTH CAROLINA (Cont'd.)										
6. August 28	5:30 p.m.	Vance				0	0	(5)	(5)	Trees, farm buildings and crops damaged or destroyed in Ridgeway and vicinity.
NORTH DAKOTA										
1. May 31	10 p.m.	Cass	SE	1/3	100	0	0	10,000		Completely destroyed large building and pulled concrete footings of building from ground. Occurred in West Fargo.
OHIO (None reported)										
OKLAHOMA										
1. March 26	3:55-5:40 a.m.	Pittsburg and Adair	NE	20	300-1,500	2	25	230,000		Hit Crowder and other small communities; skipped thru Adair County near Westville.
*2. March 30	12:38-3:20 a.m.	Dewey, Blaine, Major, Garfield, Grant and Kay	NE	97	100-600	4	38	1,087,000		Principal losses at Kenton and Longdale. Moved to Dexter, Kansas.
3. March 30	7:30-8 a.m.	Craig				0	0	1,000		Small buildings demolished 12 miles west of Binita.
4. April 30	2:45 p.m.	Jackson	NE	1/2	(2)	0	0	1,000		Damage to vacant house at Midway community 5 miles east and 1/2 mile south of Eldorado.
5. April 30	2:57-4:55 a.m.	McClain, Cleveland, Pottawatomie, and Lincoln	NE	52	250	3	56	800,000		Most of property damage to university property near Normand. Two deaths near Meeker, 1 near Shawnee Lake.
6. April 30	3-4:30 p.m.	Comanche and Grady	NE	30	200-300	0	4	20,000		Several farmsteads damaged northeast of Lawton; 2 semi-trailer trucks overturned.
7. April 30	3:45-5 p.m.	Tillman			440	0	1	95,000		Six different funnels sighted in different parts of county.
8. April 30	3:45-5 p.m.	Tillman								Included in storm #7.
9. April 30	3:45-5 p.m.	Tillman								Included in storm #7.
10. April 30	3:45-5 p.m.	Tillman								Included in storm #7.
11. April 30	3:45-5 p.m.	Tillman								Included in storm #7.
12. April 30	3:45-5 p.m.	Tillman								Included in storm #7.
13. April 30	4:45 p.m.	Pottawatomie	N	6-8	2,250	0	0	10,000		Storm damaged or destroyed 8 homes, near and in Econtuchka.
14. April 30	4:30-6:45 p.m.	Garvin and McClain	NE	25	150	0	1	39,000		Moved with skipping effect from southeast of Lindsay thru Maysville and Wayne.
15. April 30	5:20 p.m.	Stephens	NE		300	0	0	6,000		Struck Oamraca Camp 12 miles east of Duncan.
16. April 30	5:31 p.m.	Bryan and Choctaw	NE	55	440	1	3	25,000		Death occurred at Utica. Six homes near and in Bennington destroyed.
17. April 30	6-7:30 p.m.	Choctaw and Pushmataha	NE	50	1,760	2	6	603,000		Half parallel and about 10 miles south of storm #16. One death near Spencerville; 1 in south Pushmataha County.
18. May 8	6:30-6:35 p.m.	Oklmulgee	NE then SE	5	880	0	0	10,000		Occurred at Schullter.
19. May 15	9:30-9:35 p.m.	Woodward	N	3-4	6-7	0	0	1,100		Farmstead 3 miles southwest of Woodward damaged.
*20. May 15	11:30 p.m.	Texas	NE	25	50-75	1	0	13,000		Originated in Texas. About 3 miles northwest of Goodwell. One farm home demolished.
21. May 17	6:20 p.m.	Caddo	N then NW, then N	6-7	300	0	0	37,000		Damage near Binger.
22. May 17	7:59 p.m.	Lincoln	NE		200	0	13	110,000		School bus with children overturned; several buildings in Meeker damaged.
23. May 18	7:30 p.m.	Jackson	NE			0	0	(4)		Tornado funnel seen northwest of Altus. Hailstorm caused considerable damage.
24. May 18	8:38 p.m.	Kiowa	N		40	0	0	11,450		Struck Hobart Airport, destroying hangar.
25. May 19	12:20 a.m.	Craig	NE		440	0	1	1,000		Occurred near Hollow.
26. May 19	1-4 a.m.	Tulsa	SE		100	0	0	50,000		Several buildings unroofed in Broken Arrow; several barns damaged or destroyed in surrounding area.

See reference notes at end of table.

TORNADO DATA

Table 5--Continued

YEAR 1949

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
OKLAHOMA (Cont'd.)										
27.May 19	5:15 p.m.	Washington			50-100	0	1	\$4,500		Several funnel clouds observed, but only one touched ground near Dewey.
28.May 20	5:10 p.m.	Beaver	ESE	(1)	100	1	0	1,500		Six funnels observed, but only three touched ground. Death occurred near Balko.
29.May 20	5:10 p.m.	Beaver	ESE							Included with storm #28.
30.May 20	5:10 p.m.	Beaver	ESE							Included with storm #28.
31.May 20	6-7 p.m.	Ellis and Woodward	NE then E, then NE	35	100	0	3	340,000		Also \$50,000 hail damage, \$10,000 wind damage not included in total. Six funnel clouds observed in different places.
32.May 20	7:30 p.m.	Ellis			67	1	1	8,000		Farmstead destroyed near Catesby.
33.May 20		Woodward			50-75	0	0	3,000		Farmhouse destroyed 2 1/2 miles east of Woodward.
34.May 20	8:30 p.m.	Woodward	NE	27		0	0	14,000		Several farmsteads damaged west of Vici. Four homes unroofed at Moorelane.
35.May 20	8:30 p.m.	Custer	NE	12	1,760	0	0	14,500		In and near Hammon.
36.May 20	8-9 p.m.	Custer	ENE	27	1,760	0	3	105,000		Cotton gin destroyed at Butler; 25 places in Thomas damaged; 5 farm homes destroyed, many damaged.
37.May 20	9 p.m.	Woods	NE	12	30-100	0	0	56,000		Farm buildings damaged; considerable hail damage.
38.May 20	10 p.m.	Blaine and Kingfisher	NE	55	440-3,520	1	7	68,500		Death occurred 16 miles southwest of Watonga; 30 farms suffered damage.
39.May 20	Late evening	Blaine				0	0	10,000		Five farms northwest of Watonga badly damaged.
40.May 20	Evening	Payne	NE	18		0	0	15,000		Several farms south and east of Stillwater damaged.
41.May 21	Midnight	Pawnee	NE		(2)	0	1	60,000		Path northeastward divided, one part going southeastward. Major damage to oil refinery. Many homes in Cleveland damaged.
42.May 21	12:30 a.m.	Rogers	NE		220	0	2	4,000		Occurred at Oologah.
43.May 21	1 a.m.	Rogers and Craig	NE	18	200	0	0	30,000		From 5 miles north of Claremore to Chelsea, thru Estella.
44.May 21	1 a.m.	Craig	NE	3		0	0			In White Oak community. Damage included in storm #43.
45.May 21	1:10 a.m.	Craig	NE		100	0	0			In southern edge Vinita several houses damaged. Amount of damage included in storm #43.
46.May 21	1:07 a.m.	Craig	NE			0	0			Residences and roof of school gymnasium damaged at Big Cabin; amount of damage included in storm #43.
47.May 21	1:10 a.m.	Craig	NE		100	0	0			Definite track parallel and 1 mile south of that of storm #45.
48.May 21	12:10 a.m.	Creek	ENE	1 1/2	300	0	0	15,000		Occurred at Bristow.
49.May 23	7 p.m.	Kingfisher	SE	8	200-250	0	0	24,000		Occurred near Hennessey. Much hail and high wind damage to crops, also to livestock and crops in storage.
50.May 23	Evening	Latimer	NE		(2)	0	0	500		Some damage to buildings in Wilburton.
51.June 2	7-7:45 p.m.	Caddo			67	0	0	3,000		Storm circled an area of 1 mile in radius; three funnels observed but only one touched ground, tearing up a large grove of trees, unroofing a barn; occurred 3 miles northeast of Alfalfa.
52.June 3	4-4:15 p.m.	Washington	NE	2 1/2	880	0	0	0		Observed over open country filling air with debris. No property in path, north and northeast of airport at Bartlesville.
53.June 5	10:30 a.m.	Muskogee	NE	(1)	14	0	0	1,000		Three tornado funnels observed, but only two touched ground; one on ground for about 75 feet. The other about 10 blocks to the northeast unroofed a shed and tore off a porch.
54.June 5	10:30 a.m.	Muskogee				0	0			Included with storm #53.
55.August 13	11 a.m.	Pottawatomie		1/2	(2)	0	0	760		Tornado destroyed or twisted several outbuildings.
56.October 9	7-10 p.m.	Beaver and Harper	NE	35	200-880	0	2	86,000		Communities affected were Slapont, Rosston, Girard and Willard.
57.October 9-10	10:45 p.m.-1 a.m.	Beckham and Washita	ENE	16	440	0	0	20,000		Traders Cypress Building at Elk City and farms in Canute and Foss communities damaged.
58.December 11	10 a.m.	Muskogee	N	(1)	16	0	0	250		One auto shed 4 miles west of Muskogee destroyed; tornado funnel observed.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1949

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
OREGON										
(None reported)										
PENNSYLVANIA										
1. March 31	6:15-6:40 a.m.	Fayette	E	6	65	0	3	\$140,000	(5)	Barn and garage ripped off; open air movie screen, Country Club building, 5 homes, fruit orchards partially demolished in vicinity of Uniontown.
2. April 15	11-11:10 a.m.	Bradford	NE	6	200	0	3	3/4,000		Property losses small, due to forested valley struck; 3 fishermen injured by tornados; others had tackles and catch carried away; trees uprooted; 2 cars damaged; barn carried across road, landed against house; struck Shrader Creek Valley.
3. May 22) 4. May 22) 5. May 22) 6. May 22) 7. May 22)	4-9 p.m.	Butler to Northampton	ENE			1	7	(5)		Series of severe thunderstorms and recurring tornados spread across Pennsylvania; first tornado at 4 p.m. at Zellenople, others reported near Johnstown, Altoona, Harrisburg, Hummelstown, Bally, Creighton, Coopersburg, Lenhartsville, Palm, and Wescoesville; buildings, houses and barns demolished or severely damaged in and near the above communities. Broken or felled trees caused much damage to power and communication lines across State; many highways temporarily closed by debris; death resulted when man picked up high voltage live wire during storm near Johnstown.
RHODE ISLAND										
(None reported)										
SOUTH CAROLINA										
(None reported)										
SOUTH DAKOTA										
1. March 24	1:50 p.m.	Clay	N	1	(2)	0	0	(5)		Struck 3 farms; destroyed 4 sheds, 2 barns, 3 windmills near Vermillion.
2. July 31	Late afternoon	Union	E			0	0	1,000,000	(5)	Many farms hit; on 4 farms every building destroyed; communication lines blown down; wind and hail damage to corn; occurred Beresford and Elk Point.
TENNESSEE										
1. March 26	Late evening	Obion				0	2	100,000		Light to heavy damage occurred to almost every home, store building, factory or public building in town of Troy.
2. May 1	11:45 a.m.	Dickson			400	0	0	(5)		Approximately 50 homes and 1 factory building damaged.
3. May 1	Noon	Maury		12	500	0	0	(5)		Fifteen buildings, power and communication lines damaged at Mt. Pleasant.
4. May 1	Noon	Giles	NE		50	0	0	75,000		Heavy damage to sea processing plant at Pulaski.
5. May 20	6 p.m.	Claiborne	E	5	1,500	0	3	12,500	\$25,000	Damage to buildings and livestock at Barron Creek and Goin.
6. May 22	1-2 a.m.	Macon	E			0	0	300,000	(5)	Damage to buildings, trees, power and communication lines, livestock and crops at Red Boiling Springs.
TEXAS										
1. March 25	7:10 a.m.	Knox	NE	2	1,760	0	0	35,000		Buildings and utilities damaged at Benjamin.
2. March 25	12:25 p.m.	Eastland	E	1 1/2	800	0	18	31,000		Northwestern section of Desdemonia destroyed; 14 homes destroyed; 8 cars damaged.
3. March 25	11:55 p.m.	Comanche				0	0	200,000		Electric plant badly damaged at De Leon.
4. March 26	1:30 a.m.	Parker	NE	10	83	0	0	10,000		Buildings and equipment damaged at Jay.

See reference notes at end of table.

TORNADO DATA

Table 5-Continued

YEAR 1949

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
TEXAS (Cont'd.)										
5. March 26	1:30 a.m.	Parker	NE	30	880	0	6	\$100,000		Fifteen homes and 2 stores wrecked in Springtown.
6. April 18	9:30 p.m.	Lubbock		4		0	1	5,000		Farm buildings damaged in Shallow Water area.
7. April 28	10:30 a.m.	Nueces	SE	1/4	7	0	0	3,000		Buildings and small boats damaged near Corpus Christi.
8. April 30	6:55 p.m.	Fannin	NE	6	50	3	9	75,000		Buildings destroyed at Bonham.
9. May 5	Evening	Hartley	NE	1	200	0	0	(5)		Buildings damaged at Dalhart.
10. May 6	5 p.m.	Cochran	E	1 1/2	1,320	0	0	(5)		Two homes and 1 car destroyed at Bledsoe.
11. May 6	5:45 p.m.	Hockley	NE	1	147	2	3	350,000		Damage to buildings at Sundown.
12. May 13	4:55 p.m.	Potter and Carson	NE	18	17	0	0	15,000		Damage to buildings. Formed 10 miles east of English Field; moved to town of Panhandle.
13. May 13	5 p.m.	Carson	NE		17	0	0	1,100		May have been same tornado as #12. One home damaged in Panhandle.
14. May 15	4:30 p.m.	Moore	NE			0	0	750		Slight damage to buildings in Dumas.
15. May 15	6 p.m.	Hansford	NE			0	0	(4)		Slight damage to farm buildings at Gruver.
*16. May 15	6:30 p.m.	Potter	NE	100	147	6	83	4,779,000		Damage to property in Amarillo vicinity. Passed into Oklahoma.
17. May 17	5:45 p.m.	Dickens	NE		147	1	8	75,000		Damage to buildings in Spur.
18. May 17		Haskell	NE	2	25	0	0	2,000		Damage to farm buildings.
19. October 3	2:20 p.m.	Tyler			100	0	0	(5)		Timber damage 4 miles south of Woodville.
20. October 7	8:40 a.m.	Harris	NE		17	0	0	6,000		Buildings and automobile damaged near Houston.
21. October 21	12:15 a.m.	Taylor	NE	1/4	15	1	3	4,000		Farm home damaged 1 mile north of Abilene.
UTAH										
(None reported)										
VERMONT										
(None reported)										
VIRGINIA										
1. May 22	8-8:30 p.m.	King and Queen	NE	1 1/2	440	0	0	(5)	(5)	Barn demolished; several buildings damaged; trees twisted off near Cauthornville.
WASHINGTON										
1. December 23	11 a.m.	Pacific	NE	(1)	17	0	0	1,000		Destructive twisting wind unroofed 1 building, destroyed garage, damaged several houses in town of Long Beach on immediate Pacific Ocean front.
WEST VIRGINIA										
1. September 4	6 p.m.	Wirt	NE	1	440	0	1	4,100	\$500	Several buildings blown down; roofs blown off several other buildings and contents damaged by heavy rains. A few cornfields and gardens damaged; pasture fields swept clean of grass, almost as if mowed. Cone-shaped cloud observed at beginning of storm. Tornado occurred 1 mile west of Nevada.
WISCONSIN										
1. May 17	2:30 p.m.	Polk	NE	8	50	0	0	(4)		Damage to farm buildings near Amery.
2. May 19	4:03 p.m.	Winnebago	NE	(1)	70	0	0	5,000		Damage to farm buildings near Omra.
3. July 18	Afternoon	Lincoln	ENE	15	300	0	0	(5)		Buildings damaged and many trees uprooted north of Tomahawk.
4. July 27	Afternoon	Oneida	NE	(1)	(2)	0	0	(4)		Demolished a 4-room house and cut a swath thru timber at Clearwater.
WYOMING										
1. May 18	1:35 p.m.	Laramie				0	0	0		Three funnels sighted but none reached ground near Cheyenne.
2. May 20	12:45 p.m.	Laramie				0	0	0		Funnel sighted but failed to reach ground.
3. June 5	Afternoon	Big Horn				0	0	1,000		Principal damage to trees, fences and windmills at Shell.

See reference notes at end of table.

TORNADO DATA

Table 5--Continued

YEAR 1949

State and date	Hour	County	Direction of advance	Length of path, miles	Width of path, yards	Number of persons		Estimated damage		Remarks
						Killed	Injured	Property (exclusive of crops)	Crops	
WYOMING (Cont'd.)										
4. June 5	5-6 p.m.	Johnson				0	0	0		Tornado funnel failed to reach ground near Buffalo.
5. June 6		Johnson				0	0	0		Funnel failed to reach ground near Buffalo.
6. June 9	4 p.m.	Albany				0	0	0		Funnel failed to reach ground near Marshall.

* Boundary crossing

1 Short

2 Narrow

3 Additional

4 Slight

5 No estimate

6 Wide

7 Miles instead of yards

HAILSTORM LOSSES

YEAR 1943

Section	January		February		March		April		May		June		July	
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops
Alabama														
Arizona														
Arkansas				(1)		(1)		(1)						\$710
California														
Colorado														
Florida							(2)		(2)				(2)	
Georgia	(2)										\$15,000			
Idaho											12,000			
Illinois							\$192,200	\$20,000	\$77,800	\$1,000			\$575,000	\$4,007,300
Indiana							160,000	500			\$500	500	52,700	409,500
Iowa					\$100		500		22,000	535,810	500	1,778,324	120,000	7,170,033
Kansas							(2)	4/ 46,500	4/ 27,500	4/ 236,900	(5)	4/ 3,837,000	(5)	4/ 226,800
Kentucky														
Louisiana							500	(1)						
Maryland-Delaware									500	(2)				
Michigan							(2)			(2)		50,000	(2)	38,000
Minnesota									5,000	5,000	(2)	4/ 60,000	445,000	4/ 2,150,000
Mississippi							125,000	4/ 10,000						
Missouri					170		(2)	5,000	(2)	4/ 165,000	(1)			
Montana									(2)	4/ 1,000	(2)	4/ 749,500	(6)	4/ 745,300
Nebraska									4/ 12,000	4/ 13,000	(1)	(5)	(1)	19,400
Nevada														50,000
New England													5,000	
New Jersey											4/ 15,000	(5)	(6)	5,000
New Mexico														
New York												2,000		
North Carolina							92,100	105,175	2,200	32,325	2,950	257,825	9,750	852,365
North Dakota											40,000	220,000	170,000	1,800,000
Ohio							(1)						(1)	(6)
Oklahoma									750,000	31,000	4/ 5,000	2,000		
Oregon														
Pennsylvania									(1)	(1)	(1)	(1)	(1)	(1)
South Carolina												100,000		10,000
South Dakota									500	500	3,000	25,000	5,000	4/ 84,800
Tennessee										10,000	(2)	15,000		
Texas						\$40,000		3,000		(2)				
Utah												375,000		8,000
Virginia												98,500		
Washington										(2)				
West Virginia														
Wisconsin														
Wyoming											(2)	8,000	(2)	(2)
Total	(2)			(1)	\$270	4/ \$40,000	4/ \$570,300	4/ \$190,175	4/ \$897,500	4/ \$1,031,535	4/ \$66,950	4/ \$7,605,649	4/ \$1,382,450	4/ \$17,577,208

HAILSTORM LOSSES

YEAR 1943

Table 10-Continued

Section	August		September		October		November		December		Crop season April-Sept.		Total		
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property and crops
Alabama															
Arizona												\$710		\$710	\$710
Arkansas											(1)		(1)		(1)
California															
Colorado		(2)		(1)					3/ \$700		(2)	(1)	4/ 3/ \$700	(1)	4/ 3/ 700
Florida												15,000		15,000	15,000
Georgia													(2)		(2)
Idaho												12,000		12,000	12,000
Illinois												\$845,000	4,028,300	845,000	4,028,300
Indiana				\$500								213,200	411,000	213,200	411,000
Iowa	\$25,000	3,109,580	\$2,000	641,077								170,000	13,234,824	170,100	13,234,824
Kansas	(5)	51,000		4/ 5,000								4/ 27,500	4/ 4,403,200	4/ 27,500	4/ 4,403,200
Kentucky												500	(1)	500	4/ 500
Louisiana												500	(2)	500	4/ 500
Maryland-Del.															
Michigan	(2)	4,000	(2)	4,500							(2)	96,500	(2)	96,500	4/ 96,500
Minnesota	4/ 16,000	4/ 130,000	10,000	40,000							4/ 476,000	4/ 2,385,000	4/ 476,000	4/ 2,385,000	4/ 2,861,000
Mississippi												125,000	4/ 10,000	125,000	4/ 10,000
Missouri			4/ 2,550	(2)								4/ 2,550	4/ 170,000	4/ 2,720	4/ 170,000
Montana	4/ 5,000	861,500		(2)								4/ 5,000	4/ 2,357,300	4/ 5,000	4/ 2,357,300
Nebraska												4/ 12,000	4/ 13,000	4/ 12,000	4/ 13,000
Nevada												7/ 19,400		7/ 19,400	7/ 19,400
New England	5,000	50,000										10,000	100,000	10,000	100,000
New Jersey															
New Mexico															
New York												4/ 15,000	4/ 5,000	4/ 15,000	4/ 20,000
North Carolina															
North Dakota	5,000	62,900										2,000		2,000	2,000
Ohio	100,000	1,850,000	10,000	166,000								112,000	1,310,590	112,000	1,310,590
Oklahoma				(6)								320,000	4,036,000	320,000	4,036,000
Oregon			5,500	26,550	4/ \$35,000	\$255,000						(1)	(6)	(1)	(6)
Pennsylvania												4/ 760,500	59,550	4/ 795,500	4/ 314,550
South Carolina															
South Dakota	4,000	4/ 50,000	1,000	14,000								(1)	(1)	(1)	(1)
Tennessee												13,500	4/ 174,300	13,500	4/ 174,300
Texas		4/ 20,000										(2)	25,000	(2)	4/ 25,000
Utah												4/ 23,000		4/ 63,000	4/ 63,000
Virginia															
Washington												375,000		375,000	375,000
West Virginia												106,500		106,500	106,500
Wisconsin															
Wyoming															
Total	4/ \$165,000	\$6,256,980	4/ \$31,050	\$897,627	4/ \$35,000	\$255,000			3/ \$700		4/ \$3,113,250	33,559,174	4/ \$3,149,220	33,854,174	4/ \$37,003,394

See reference notes at end of table.

HAILSTORM LOSSES

Table 10

YEAR 1944

Section	January		February		March		April		May		June		July	
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops
Alabama							\$5,000	\$45,000						
Arizona														
Arkansas					\$10,000	(1)		(1)		(1)				(1)
California								2,000,000						
Colorado								3,000		\$135,000		\$11,500	\$677,000	\$45,000
Florida								30,000			(2)	10,000	5,000	115,000
Georgia						(2)	(2)				(1)	(1)		
Idaho														
Illinois					5,000		45,000	45,000			\$80,750	428,000	40,000	150,000
Indiana										1,500	500	3,500	2,000	13,000
Iowa							250		\$75,000	96,784	50,000	2,188,177	250,000	4,900,680
Kansas							4,000	21,000	11,000	105,000	3,200	1,548,000	202,500	1,824,200
Kentucky														
Louisiana					(1)		500	10,000	(1)	(1)			(1)	4,000
Maryland-Delaware										(1)	(2)		(1)	250,000
Michigan										8,000	41,000			82,000
Minnesota									2,000	6,000	538,000	2,212,000	4,700	4,18,000
Mississippi			(1)		(1)		40,000	300,000					(1)	(1)
Missouri							8,500	2,000		(6)	(1)		500	4,13,000
Montana										(2)				
Nebraska										(5)		91,000	447,650	1,060,500
Nevada												13,000	233,500	500
New England												(2)		8,698,500
New Jersey												10,000		100,000
New Mexico														2,000
New York									(1)	(1)	4,250	4,80,000	(1)	4,1,200
North Carolina												52,000		(6)
North Dakota							3,300	13,400	96,725	148,075	30,800	915,348	28,250	1,212,583
Ohio												120,000	6,000	460,000
Oklahoma					(6)		6,000	9,000	10,000	63,250	(6)	(6)	35,000	200,000
Oregon								(1)	(1)	(1)		(1)		(1)
Pennsylvania														
South Carolina												27,000		
South Dakota									600	(1)	(1)	4,000	(1)	5,000
Tennessee														
Texas			\$7,000		4,000,000	\$15,000	1,000,000	96,000	7,000	825,000		(1)		
Utah														
Virginia									1,200	106,550	44,200	647,400	(2)	(2)
Washington										4,000				
West Virginia								(2)		10,000		4,000		5,000
Wisconsin												25,000	83,000	31,000
Wyoming												500,000	350,000	(1)
Total			4,7,000		4,015,000	4,15,000	1,112,550	2,574,400	4,203,525	1,519,159	1,389,050	9,416,075	1,255,500	4,19,196,663

HAILSTORM LOSSES

Table 10-Continued

YEAR 1944

Section	August		September		October		November		December		Crop season April-Sept.		Total		
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property and crops
Alabama											\$5,000	\$45,000	\$5,000	\$45,000	\$50,000
Arizona												125,000		125,000	125,000
Arkansas											(1)		10,000	(1)	4,10,000
California												2,000,000	2,000,000	2,000,000	2,000,000
Colorado	\$900,000	\$117,500									1,577,000	162,500	1,577,000	162,500	1,739,500
Florida												149,500		149,500	149,500
Georgia											4,500	4,155,000	4,500	4,155,000	4,160,000
Idaho		60,000									(1)	60,000	(1)	60,000	60,000
Illinois				500							165,750	623,500	170,750	623,500	794,250
Indiana											2,500	18,000	2,500	18,000	20,500
Iowa	28,000	2,794,444		20,000							403,250	10,000,085	403,250	10,000,085	10,403,335
Kansas	2,000	4,313,000				\$2,000					222,700	4,381,200	222,700	4,381,200	4,403,900
Kentucky				5,000								5,000		5,000	5,000
Louisiana					(1)	(1)					500	14,000	500	14,000	14,500
Maryland-Del.											250,000		250,000		250,000
Michigan		16,000		6,000								153,000		153,000	153,000
Minnesota	28,000	179,000									575,000	2,415,000	575,000	2,415,000	2,990,000
Mississippi		300			(1)	(1)			(1)		40,000	300,300	40,000	300,300	340,300
Missouri		(6)									9,000	15,000	9,000	15,000	24,000
Montana	88,250	10,484,800									181,100	11,992,950	181,100	11,992,950	12,174,050
Nebraska	1,000	755,000									14,500	9,687,000	14,500	9,687,000	9,701,500
Nevada											(2)	(2)	(2)	(2)	(2)
New England		500,000									10,000	600,000	10,000	600,000	610,000
New Jersey												12,000		12,000	12,000
New Mexico	4,10,000	4,5,000			(1)	(1)					12,500	86,200	12,500	86,200	98,700
New York											(1)	52,000	(1)	52,000	52,000
North Carolina	23,100	695,260	(1)	12,800							182,175	2,997,466	182,175	2,997,466	3,179,641
North Dakota	8,000	1,100,000		50,000							14,000	1,730,000	14,000	1,730,000	1,744,000
Ohio		(2)		(2)							(6)	16,000	(6)	16,000	16,000
Oklahoma											51,000	272,250	51,000	272,250	323,250
Oregon											(1)	(1)	(1)	(1)	(1)
Pennsylvania	(1)	(1)			(1)	(1)					(1)	(1)	(1)	(1)	(1)
South Carolina												27,000		27,000	27,000
South Dakota	(2)	15,000									600	24,000	600	24,000	24,600
Tennessee													4,000,000		4,000,000
Texas											1,007,000	4,921,000	1,014,000	4,936,000	4,1,950,000
Utah															
Virginia											45,400	4,753,950	45,400	4,753,950	4,799,350
Washington												4,000		4,000	4,000
West Virginia												19,000		19,000	19,000
Wisconsin											25,000	114,000	25,000	114,000	139,000
Wyoming											500,000	350,000	500,000	350,000	850,000
Total	4,1,088,350	4,17,035,304	(1)	4,219,300	(1)	4,2,000			(1)		4,55,048,975	4,49,960,901	4,59,070,975	4,49,977,901	4,59,048,876

See reference notes at end of table.

Table 10

HAILSTORM LOSSES

YEAR 1945

Section	January		February		March		April		May		June		July	
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops
Alabama														
Arizona							\$5,000	\$5,000						
Arkansas										\$50,000				
California								5,000		30,600		\$126,000		
Colorado									\$4,000	16,000	\$30,000	130,000	\$10,000	\$100,000
Florida							2,700	28,500	650	9,250				
Georgia							10,000	35,000				10,000		
Idaho											(2)	8/ 85,000		90,000
Illinois									85,000	50,000	20,000	5,000		10,000
Indiana											8,500	8,000	11,000	7,500
Iowa							500	500	4/ 100,000	283,000	(2)	1,447,000	(2)	2,130,000
Kansas					\$305,000	\$25,000	3,000	2,500	122,000	3,439,500	4/ 661,000	4/ 6,860,500	4/ 38,500	4/ 871,700
Kentucky					(2)									
Louisiana			\$100	(2)	23,000	(2)	15,000	10,000	1,000	100,800	(2)	(2)		
Maryland-Delaware											(1)	(1)		
Michigan										163		9,084	4/ 13,500	4/ 49,218
Minnesota									4/ 637,000	4/ 138,000	(2)	(2)		4/ 65,000
Mississippi					(2)	(2)	(2)	(2)	(2)	(2)	(2)	10,000	(5)	(5)
Missouri							4/ 203,600	4/ 8,000	4/ 277,100	4/ 538,000	(6)	4/ 2,500		
Montana												31,200		1,486,500
Nebraska									2,000	4/ 60,000	4/ 23,150	4/ 1,897,350	2,500	704,000
Nevada														
New England														
New Jersey													1,000	4,000
New Mexico								(1)			(1)		250	4/ 1,000
New York											(1)	(1)		(1)
North Carolina													45,670	835,229
North Dakota													40,000	1,200,000
Ohio											5,000	95,000		
Oklahoma					20,000	(1)			4/ 105,000	4/ 30,000	4/ 22,500	4/ 245,000	650	200,000
Oregon					(1)		12,000	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pennsylvania							(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
South Carolina										6,000		75,000		
South Dakota									(6)	(1)	(6)	50,000	(1)	(1)
Tennessee											10,000	1,500		
Texas					7,500	500	3,000	250,000	445,000	35,000				50,000
Utah														
Virginia														
Washington										5,000	5,000	115,000	500	21,000
West Virginia							(1)	(1)	(1)	(1)	(5)	(5)	(5)	(5)
Wisconsin											(2)	(2)	1,000	10,000
Wyoming														
Hawaii														
West Indies										(2)				
Total			\$100	(2)	4/ \$355,500	4/ \$25,500	4/ \$254,800	4/ \$344,500	1,778,750	4/ 4,791,313	4/ \$785,150	11,218,134	4/ \$164,570	4/ \$7,835,147

HAILSTORM LOSSES

Table 10-Continued

YEAR 1945

Section	August		September		October		November		December		Crop season April-Sept.		Total		
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property and crops
Alabama											\$5,000	\$5,000	\$5,000	\$5,000	\$10,000
Arizona															
Arkansas												50,000		50,000	50,000
California								\$2,000			161,600	163,600		163,600	163,600
Colorado											44,000	246,000	44,000	246,000	290,000
Florida											3,350	37,750	3,350	37,750	41,100
Georgia											10,000	45,000	10,000	45,000	55,000
Idaho											(2)	8/ 175,000	(2)	8/ 175,000	8/ 175,000
Illinois	\$2,000	\$720		\$600							107,000	66,320	107,000	66,320	173,320
Indiana	17,000	13,000	\$500	2,000							37,500	31,000	37,500	31,000	68,500
Iowa		814,000	(2)	1,921,000							4/ 100,000	6,595,000	4/ 100,000	6,595,000	4/ 6,695,000
Kansas	15,000	95,000	500	4,000							4/ 840,000	4/ 11,273,200	4/ 1,145,000	4/ 11,298,200	4/ 12,443,200
Kentucky												(2)	(2)	(2)	(2)
Louisiana											4/ 16,000	4/ 110,800	4/ 39,100	4/ 110,800	4/ 149,900
Maryland-Del.											(1)	(1)	(1)	(1)	(1)
Michigan		11,401		6,588								76,454		76,765	76,765
Minnesota		4/ 250,000		4/ 10,000		\$115		196			4/ 650,500	4/ 463,000	4/ 650,500	4/ 463,000	4/ 1,113,500
Mississippi								(2)			(2)	4/ 10,000	(2)	4/ 10,000	4/ 10,000
Missouri	(2)	101,500									4/ 480,700	4/ 650,000	4/ 480,700	4/ 650,000	4/ 1,130,700
Montana	31,000	2,861,000									31,000	4,378,700	31,000	4,378,700	4,409,700
Nebraska	200	318,300	12,000	30,000							4/ 39,850	4/ 3,009,650	4/ 39,850	4/ 3,009,650	4/ 3,049,500
Nevada															
New England					(1)	(1)							(1)	(1)	(1)
New Jersey											4/ 1,000	4/ 4,000	4/ 1,000	4/ 4,000	5,000
New Mexico											(1) 250	4/ 1,000	4/ 250	4/ 1,000	4/ 1,250
New York		(1)	(1)	(1)							(1)	(1)	(1)	(1)	(1)
North Carolina	100	5,450		1,000							45,770	841,679	45,770	841,679	887,449
North Dakota	15,000	430,000	5,000	100,000							65,000	1,825,000	65,000	1,825,000	1,890,000
Ohio		(2)									(2)	4/ 15,000	(2)	4/ 15,000	4/ 15,000
Oklahoma			35,000	1,000							4/ 163,150	4/ 476,000	4/ 163,150	4/ 476,000	4/ 659,150
Oregon											4/ 12,000	(1)	4/ 12,000	(1)	4/ 12,000
Pennsylvania	(1)	(1)									(1)	81,000	(1)	81,000	81,000
South Carolina											(6)	(1)	(6)	(1)	(6)
South Dakota											10,000	50,000	35,000	175,000	210,000
Tennessee							\$25,000	125,000			448,000	336,500	455,500	337,000	792,500
Texas											100,000	100,000	100,000	100,000	100,000
Utah	100,000										10,500	251,000	10,500	251,000	261,500
Virginia	5,000	110,000									(2)	(2)	(2)	(2)	(2)
Washington		(2)									(5)	(5)	(5)	(5)	(5)
West Virginia	4/ 5,000	4/ 75,000	(1)	(1)							4/ 5,000	4/ 75,000	4/ 5,000	4/ 75,000	4/ 80,000
Wisconsin											2,000	4/ 20,000	2,000	4/ 20,000	4/ 22,000
Wyoming	1,000	10,000													
Hawaii									(1)				(1)	(1)	(1)
West Indies											(2)		(2)	(2)	(2)
Total	4/ \$191,300	\$ 4/ 5,095,371	4/ \$53,000	\$ 4/ 2,076,188	(1)		\$115	\$25,000	4/ \$127,196	(1)	4/ \$3,227,570	\$ 4/ 31,360,653	4/ \$3,608,170	\$ 4/ 31,513,464	4/ \$35,121,634

See reference notes at end of table.

HAILSTORM LOSSES

Table 10

YEAR 1946

Section	January		February		March		April		May		June		July	
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops
Alabama							\$ 1,400,000	\$100,000						
Arizona														
Arkansas							(1)	(1)	(1)	\$ (1)	(1)	\$ (1)		
California									\$4,000	1,010,000	\$305,000	1,125,000	\$80,000	\$530,000
Colorado						\$1,000	1,000	50		1,000				
Florida														
Georgia					\$5,000	1,500				3,000				
Idaho						500				500				
Illinois											1,000	30,000	1,000	1,300
Indiana														15,000
Iowa														1,795,026
Kansas					4,500		4,000	46,000	250,000	261,164	212,000	2,354,819	20,000	1,246,000
Kentucky					5,000				4/ 71,000	4/ 1,075,000	4/ 76,000	4/ 959,000		
Louisiana	(2)	(2)	(2)	(2)	(6)	(2)	(1)	(1)	175,000	105,000			15,000	10,000
Maryland-Delaware							(2)		(2)				(2)	
Michigan							(5)			8,000	4/ 54,000	4/ 139,000	11,700	150,000
Minnesota											4/ 29,600	4/ 139,000	(2)	
Mississippi	(1)	(1)	(2)	(2)	(1)	(1)	300		(2)	(2)	(2)	(2)	(2)	(2)
Missouri					(1)	(1)			(1)	4/ 2,000	4/ 2,500	(1)	(1)	(1)
Montana										10,000	1,000	1,389,000	6,500	2,370,850
Nebraska					(1)	(1)			1,500	212,000	12,500	964,000	1,000	4/ 677,650
Nevada														
New England											600,000	(5)		
New Jersey											(1)	2,000		500
New Mexico							(2)	(2)	(2)	4/ 10,000		260,000	15,000	5,000
New York									100	25,000			(1)	852,000
North Carolina							3,000	56,140	33,250	757,150	16,025	884,287	7,500	348,760
North Dakota											20,000	450,000	30,000	800,000
Ohio									(2)	6,000				
Oklahoma							47,500	9,000	1,500	135,000	(1)	(1)		
Oregon														
Pennsylvania					25,000	15,000			16,000	115,000		20,000		1,000
South Carolina											(8)	(8)	(8)	10,000
South Dakota														(8)
Tennessee							50,000	110,000	4/ 5,817,650	1,520,000				
Texas							(2)	(6)						
Utah														
Virginia									10,000	6,000	5,000	139,000		30,000
Washington														
West Virginia					(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Wisconsin											(2)	(5)		
Wyoming											125,000	52,500		200
Total	(1)	(1)	(2)	(2)	4/ \$39,500	4/ \$18,000	\$ 4/ 1,505,800	4/ \$331,190	\$ 4/ 6,370,000	\$ 4/ 5,261,814	\$ 4/ 1,405,625	\$ 4/ 8,822,606	4/ \$187,700	4/ \$8,870,286

HAILSTORM LOSSES

Table 10-Continued

YEAR 1946

Section	August		September		October		November		December		Crop season April-Sept.		Total		
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property and crops
Alabama											\$1,400,000	\$100,000	\$1,400,000	\$100,000	\$1,500,000
Arizona															
Arkansas											(1)	(1)	(1)	(1)	(1)
California											396,000	2,665,000	396,000	2,665,000	3,061,000
Colorado			\$7,000								1,000	1,050	1,000	2,050	3,050
Florida												3,000	5,000	4,500	9,500
Georgia															
Idaho											500	53,800	500	54,300	54,800
Illinois	\$500	\$50,000		\$2,000							4,000	46,000	4,000	46,000	50,000
Indiana	2,000	1,000									4/ 462,000	7,243,263	4/ 462,000	7,243,263	7,705,263
Iowa		2,399,683	(5)	432,571							4/ 291,500	4/ 3,541,000	4/ 296,000	4/ 3,541,000	4/ 3,837,000
Kansas	10,000	10,000	110,500	205,000							10,000	190,000	15,000	190,000	205,000
Kentucky			10,000	190,000							4/ 190,000	4/ 115,000	4/ 190,000	4/ 115,000	4/ 305,000
Louisiana											(1)	(1)	(1)	(1)	(1)
Maryland-Del.	(1)										(1)		(1)		
Michigan	(2)	45,000		200							(1)	134,200	(1)	134,200	4/ 134,200
Minnesota	4,000	72,500		70,000							4/ 45,300	4/ 431,500	4/ 45,300	4/ 431,500	4/ 476,800
Mississippi											4/ 300	(2)	4/ 300	(1)	4/ 300
Missouri			4/ 3,000	(1)							4/ 5,500	4/ 2,000	4/ 5,500	4/ 2,000	4/ 7,500
Montana		61,500									7,500	3,831,350	7,500	3,831,350	3,838,850
Nebraska	200	4/ 245,000	(1)	(1)							4/ 15,200	4/ 2,098,650	4/ 15,200	4/ 2,098,650	4/ 2,113,850
Nevada															
New England	(2)	650,000									4/ 600,000	4/ 650,000	4/ 600,000	4/ 650,000	4/ 1,250,000
New Jersey		500									(1)	3,000	(1)	3,000	4/ 3,000
New Mexico		155,000		12,000							4/ 15,000	4/ 442,000	4/ 15,000	4/ 442,000	4/ 457,000
New York			(1)	100,000							4/ 100	977,000	4/ 100	977,000	4/ 977,100
North Carolina	15,700	1,592,608	1,500	10,500							76,975	3,649,445	76,975	3,649,445	3,726,420
North Dakota	50,000	400,000		2,000							100,000	1,652,000	100,000	1,652,000	1,752,000
Ohio			(2)								(2)	4/ 6,000	(1)	4/ 6,000	4/ 6,000
Oklahoma	(1)	3,500					\$30,000				4/ 49,000	4/ 147,500	4/ 79,000	4/ 147,500	4/ 226,500
Oregon															
Pennsylvania			2,000	3,000							2,000	24,000	2,000	24,000	26,000
South Carolina											16,000	125,000	41,000	140,000	181,000
South Dakota											(8)	(8)	(8)	(8)	(8)
Tennessee											50,000	110,000	50,000	110,000	160,000
Texas	(2)	150,000			\$10,000	\$100,000					4/ 5,817,650	4/ 1,670,000	4/ 5,827,650	4/ 1,770,000	4/ 7,597,650
Utah															
Virginia	10,000	86,500									15,000	271,500	15,000	271,500	286,500
Washington											(2)	4/ 75	(2)	4/ 75	4/ 75
West Virginia	(2)	(2)		75							4/ 1,250	4/ 20,000	4/ 1,250	4/ 20,000	4/ 21,250
Wisconsin	500	5,000	750	15,000							140,000	53,200	140,000	53,200	193,200
Wyoming			15,000	500											
Total	4/ \$92,900	\$ 4/ 5,927,791	4/ \$149,750	\$ 4/ 1,042,846	\$10,000	\$100,000	\$30,000				4/ \$9,711,775	\$ 4/ 30,256,533	4/ \$9,791,275	\$ 4/ 30,374,533	4/ \$40,165,808

See reference notes at end of table.

Table 10

HAILSTORM LOSSES

YEAR 1947

Section	January		February		March		April		May		June		July	
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops
Alabama														
Arizona									(1)	(1)				
Arkansas							\$2,000	\$500			\$2,000			\$1,000,000
California		(1)		(1)		(1)		(1)		(1)	\$4/			
Colorado							60,500				500,000	6,500,000	\$3,000	210,000
Florida					\$11,000	\$7,000			\$5,500	\$27,000	100	4,500	6,000	95,500
Georgia									(6)	(6)	200,000	5,000		(6)
Idaho							20,000	500			1,000			
Illinois							5,000		5,000	5,000			90,000	75,000
Indiana							310,000	17,000	(2)	(2)	4/350,000	6,237,000	(2)	3,484,000
Iowa							30,000	19,500	149,000	2,805,000	4/280,700	4/6,997,800	32,000	453,000
Kansas								2,000	500					
Kentucky								(2)						
Louisiana									(6)					
Maryland-Delaware													(1)	7,500
Michigan											4/4,500	4/165,000		4/31,000
Minnesota											(6)	(2)		
Mississippi											(6)	(2)		
Missouri	\$50				7,500	(2)	4/19,500	(2)		10,000			4/13,320	4/3,270,300
Montana											(6)	4/67,000		
Nebraska									20,000	344,000	10,000	1,540,000	2,000	3,885,000
Nevada														
New England													(1)	250,000
New Jersey													500	500
New Mexico									25,000	355,000	1,000	2,000	69,150	200,000
New York									(6)	(6)				250,000
North Carolina							2,000	25,200	75,000	19,700	7,400	193,950	9,850	1,671,789
North Dakota												52,000	10,000	1,800,000
Ohio												(2)		(2)
Oklahoma							7,500			370,000		(6)		200,000
Oregon												(6)	(6)	(6)
Pennsylvania											67,500			
South Carolina													500	1,000
South Dakota													(1)	(1)
Tennessee														
Texas	(1)		(1)		(2)		145,000	50,000	(6)	150,150		250,000		
Utah										1,000				
Virginia														4/34,000
Washington										4,000		(6)		(5)
West Virginia														
Wisconsin									(2)	(2)			27,000	(6)
Wyoming														(6)
Total	4/\$50	(1)	(1)	(1)	4/\$18,500	4/\$7,000	4/\$541,000	4/\$173,200	4/\$281,600	4/\$4,092,350	4/\$1,228,200	4/\$22,224,250	4/\$263,320	4/\$16,918,589

HAILSTORM LOSSES

Table 10--Continued

YEAR 1947

Section	August		September		October		November		December		Crop season April-Sept.		Total		
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property and crops
Alabama		\$100,000										\$100,000	\$100,000		\$100,000
Arizona											(1)	(1)	(1)	(1)	(1)
Arkansas											\$4,000	1,000,500	\$4,000	1,000,500	1,004,500
California							(1)		(1)		(1)	(1)	(1)	(1)	(1)
Colorado											503,000	4/6,770,500	503,000	4/6,770,500	4/7,273,500
Florida											11,600	127,000	11,600	127,000	138,600
Georgia		4/40,000		(6)							4/240,000		240,000	240,000	240,000
Idaho											25,000	6,500	25,000	6,500	31,500
Illinois											168,000	95,000	168,000	95,000	263,000
Indiana	\$23,000	10,000	\$45,000	\$5,000							4/660,000	9,825,000	4/660,000	9,825,000	4/10,485,000
Iowa	(2)	87,000									4/491,700	4/10,275,300	4/492,200	4/10,275,300	4/10,767,500
Kansas	(1)	(1)			\$500						2,000	500	2,000	500	2,500
Kentucky		(2)										(2)	(2)	(2)	(2)
Louisiana											(6)		(6)		(6)
Maryland-Del.			(2)								(6)	4/132,950	(6)	4/137,850	4/137,850
Michigan	(6)	102,050		13,400	\$4,900						(6)	4/258,500	4/15,500	4/258,500	4/274,000
Minnesota	5,000	62,500	6,000	(2)							4/15,500	4/258,500	4/15,500	4/258,500	4/274,000
Mississippi	(2)	(2)									(2)	(2)	(2)	(2)	(2)
Missouri				4/1,000	4,000						4/19,500	4/11,000	4/31,050	4/11,000	4/42,050
Montana	(1)	6,823,600	(1)	(1)							4/13,420	4/10,160,900	4/13,420	4/10,160,900	4/10,174,320
Nebraska		20,000									32,000	5,789,000	32,000	5,789,000	5,821,000
Nevada															
New England											(2)	250,000	(2)	250,000	4/250,000
New Jersey	500	500									2,000	3,000	2,000	3,000	5,000
New Mexico	500	10,000									94,650	565,000	94,650	565,000	659,650
New York		3,000									(6)	4/253,000	(6)	4/253,000	4/253,000
North Carolina	7,050	488,000	5,000	8,000							106,300	2,406,639	106,300	2,406,639	2,512,939
North Dakota	15,000	2,000,000	25,000	80,000							50,000	3,932,000	50,000	3,932,000	3,982,000
Ohio		(6)	(2)	(2)							(2)	(6)	(2)	(6)	(6)
Oklahoma											7,500	4/370,000	7,500	4/370,000	4/377,500
Oregon											(2)	200,000	(2)	200,000	4/200,000
Pennsylvania											(6)	(6)	(6)	(6)	(6)
South Carolina															
South Dakota											67,500		67,500		67,500
Tennessee		4,500									500	5,500	500	5,500	6,000
Texas	(2)	(2)	(1)	(1)	1,359,000	919,000	\$1,000	\$30,000	(5)		4/145,000	4/450,150	4/1,505,000	4/1,399,150	4/2,904,150
Utah												1,000		1,000	1,000
Virginia		4/48,000										4/82,000		4/82,000	4/82,000
Washington											(5)	(5)	(5)	(5)	(5)
West Virginia												4/4,000		4/4,000	4/4,000
Wisconsin	(6)	4/43,000									4/27,000	4/43,000	4/27,000	4/43,000	4/70,000
Wyoming				100	30,000						4/100	4/30,000	4/100	4/30,000	4/30,100
Total	4/\$51,050	9,842,150	4/\$81,100	4/\$137,400	1,363,500	\$923,900	\$1,000	4/\$30,000	(5)	(1)	4/\$2,446,270	53,387,939	4/\$3,829,320	54,348,839	55,178,159

See reference notes at end of table.

HAILSTORM LOSSES

Table 10

YEAR 1948

Section	January		February		March		April		May		June		July	
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops
Alabama					\$50									
Arizona							\$							
Arkansas							1,136,000			\$50,000		\$25,000		
California														
Colorado									2,000,000	3,000,000	\$	1,500,000	500,000	\$2,000,000
Florida							500	\$5,000						\$250,000
Georgia					(2)	(2)	200,000	50,000	30,000	95,000		(6)		(6)
Idaho										(2)		(6)		
Illinois					11,000		5,000				77,000	1,000,000		
Indiana												81,000		75,500
Iowa							50,000			63,000		1,575,000	40,000	1,575,000
Kansas							4/ 150		73,000	1,175,250	4/ 200,000	4/ 5,001,500	186,000	1,500,000
Kentucky							24,000	60,000						
Louisiana										(2)		(2)		
Maryland-Delaware											4/ 40,000	4/ 500,000		
Michigan							100,000	150	(2)		(5)	16,000	(2)	51,200
Minnesota					2,000				(2)	(2)	80,000	720,000		137,500
Mississippi							(2)		(2)					
Missouri					4/ 1,000		(6)	(6)	4/ 1,000	(6)	4/ 124,100	4/ 342,000	50,000	60,000
Montana											35,850	429,500	580,550	2,568,050
Nebraska									(2)	(2)	482,000	6,572,700	1,100	350,000
Nevada														
New England											(2)	(2)		(2)
New Jersey									10,000	5,000	1,000	1,000	1,000	1,000
New Mexico									4/ 75,000	20,600	4/ 203,700	4/ 337,000	2,500	17,500
New York										(2)			4/ 100	75,600
North Carolina							500	26,700	99,700	940,290	92,750	1,383,160	17,500	151,420
North Dakota											10,000	32,000	70,000	2,000,000
Ohio								(1)	(1)	(1)	(1)	(1)		(1)
Oklahoma					21,000		(6)	(6)	4/ 149,500	4/ 147,000	31,000	529,000		
Oregon										5,000	400,000	200,000		
Pennsylvania										(2)		(2)	(1)	(1)
South Carolina														
South Dakota														500,000
Tennessee														
Texas					1,000	\$500								
Utah					800,000		9,400	5,000	26,800	272,000		1,000		
Virginia											(2)	250,000	(2)	50,000
Washington									12,000	223,000		42,000		25,000
West Virginia												50,000		(2)
Wisconsin													(2)	(2)
Wyoming									(2)	(1)	10,000	16,000	3,250	82,000
Total					4/ \$836,050	4/ \$500	1,525,550	4/ \$149,850	2,477,000	5,996,140	3,288,000	19,603,860	2,952,500	\$9,569,770

HAILSTORM LOSSES

Table 10-Continued

YEAR 1948

Section	August		September		October		November		December		Crop season April-Sept.		Total		
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property and crops
Alabama															\$50
Arizona	\$1,000										\$1,000		1,000		1,000
Arkansas															
California											1,136,000	\$75,000	1,136,000	\$75,000	1,211,000
Colorado	3,000	\$500,000	\$9,000	1,000,000							\$5,000				5,000
Florida	500										5,512,000	5,250,000	5,512,000	5,250,000	10,762,000
Georgia											1,000	5,000	1,000	5,000	6,000
Idaho		135,000									230,000	4/ 145,000	4/ 230,000	4/ 145,000	4/ 375,000
Illinois	569,500	4,723,000									4/ 135,000		4/ 135,000	4/ 135,000	4/ 135,000
Indiana											651,500	5,723,000	662,500	5,723,000	6,385,500
Iowa		3,066,869	20,000								156,500		156,500		156,500
Kansas	65,750	410,250	4/ 112,000	(2)	\$2,500						4/ 110,000	6,279,869	110,000	6,279,869	6,389,869
Kentucky											4/ 636,900	8,087,000	4/ 639,400	8,087,000	8,726,400
Louisiana							(2)	(2)			24,000	60,000	24,000	60,000	84,000
Maryland-Del.	(6)	4/ 50,000									(2)	(2)	(2)	(2)	(2)
Michigan	(5)	29,400	(2)	800							4/ 40,000	4/ 550,000	4/ 40,000	4/ 550,000	4/ 590,000
Minnesota	44,000	4/ 240,000			\$2,100						4/ 100,000	97,650	4/ 100,000	99,750	4/ 199,750
Mississippi							(2)	(2)			124,000	4/ 1,097,500	126,000	4/ 1,097,500	4/ 1,223,500
Missouri	150	1,000					(2)	(1)			(2)	(2)	(2)	(2)	(2)
Montana	11,000	7,508,800									4/ 175,250	4/ 403,000	4/ 176,250	4/ 403,000	4/ 579,250
Nebraska	4/ 50,000	4/ 150,000	1,000	519,000							627,400	10,506,350	627,400	10,506,350	11,133,750
Nevada											4/ 534,100	4/ 7,591,700	4/ 534,100	4/ 7,591,700	4/ 8,125,800
New England		(5)									(2)	(5)	(2)	(5)	(5)
New Jersey											12,000	7,000	12,000	7,000	19,000
New Mexico		2,000									4/ 281,200	4/ 377,100	4/ 281,200	4/ 377,100	4/ 658,300
New York											4/ 100	75,600	4/ 100	75,600	4/ 75,700
North Carolina	7,500	401,850	500	1,350							218,450	2,904,770	218,450	2,904,770	3,123,220
North Dakota	30,000	990,000	5,000	23,000							115,000	3,045,000	115,000	3,045,000	3,160,000
Ohio		(1)									(1)	(1)	(1)	(1)	(1)
Oklahoma		5,000	(6)								(1)	(1)	(1)	(1)	(1)
Oregon	50,000	200,000									4/ 180,500	4/ 681,000	4/ 201,500	4/ 681,000	4/ 882,500
Pennsylvania	(1)	(1)							\$6,000		450,000	405,000	456,000	405,000	861,000
South Carolina											(1)	(1)	(1)	(1)	(1)
South Dakota												3,000		3,000	3,000
Tennessee												500,000		500,000	500,000
Texas	24,000	94,000										1,000		1,000	1,500
Utah					90,075						60,200	372,000	860,200	462,075	1,322,275
Virginia		131,500									(2)	300,000	(2)	300,000	4/ 300,000
Washington											12,600	421,500	12,600	421,500	434,100
West Virginia											4/ 50,000		4/ 50,000	4/ 50,000	4/ 50,000
Wisconsin	70,600	630,600									(2)	(2)	(2)	(2)	(2)
Wyoming	1,100	400,000									83,850	728,600	83,850	728,600	812,450
Total	4/ \$928,100	4/ \$19,669,369	4/ \$147,500	4/ \$1,544,150	\$2,500	\$92,175	(2)	(1)	\$6,000	\$5,000	11,318,650	56,533,139	12,163,200	56,630,814	\$68,794,014

See reference notes at end of table.

Table 10

HAILSTORM LOSSES

YEAR 1949

Section	January		February		March		April		May		June		July	
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops
Alabama									(2)	(2)				
Arizona														
Arkansas					(2)	(2)			(6)	(6)				
California														
Colorado														
Florida								(2)	\$13,500	\$18,500	\$31,200	\$86,000	\$46,200	\$49,500
Georgia									150,000	(2)	(2)			
Idaho									500	60,500		3,000		
Illinois									4/12,000	37,000		40,000		50,000
Indiana							\$2,000		2,000	21,000	10,000	1,000		10,000
Iowa								\$		(5)	(5)		(2)	(2)
Kansas							155,000	\$1,087,000	4/400,000	4/7,629,400	4/175,000	4/3,148,500		
Kentucky												(2)		
Louisiana										(1)				(2)
Maryland-Delaware										2,700	(1)	9,200	(1)	3,700
Michigan									10,000	(2)	18,000	4/152,000	16,000	99,000
Minnesota									4/12,400	158,000	100	50		
Mississippi	\$500				\$175,000				5,000	14,000	5,000	97,200	5,000	1,563,300
Missouri									10,825	3,881,900	70,375	237,400		220,000
Montana									(1)	(1)	(2)	(2)	(5)	5,000,000
Nebraska													1,000	1,000
Nevada													5,200	28,850
New England														
New Jersey														
New Mexico							76,000	22,500	80,000	69,200	30,000	68,500		
New York														
North Carolina														
North Dakota							11,200	22,350	92,600	1,056,760	14,200	67,200		6,300
Ohio									25,000	20,000	25,000	680,000	2,500,000	3,600,000
Oklahoma									(2)	(2)				
Oregon							10,000	35,000	221,000	5,406,500	25,000	100,000		
Pennsylvania							(1)	(1)						
South Carolina														
South Dakota														
Tennessee									(6)	(6)		(1)		(1)
Texas														
Utah							1,575,000	75,000	5,000	2,420,500		569,900	250,000	
Virginia									(6)	(6)	4/25,000	4/301,500		
Washington									4/16,000	3,250				
West Virginia													(5)	(2)
Wisconsin									(2)	(1)	(2)		1,500	20,000
Wyoming														
Total	\$500				4/175,000	(2)	\$4/1,829,200	\$4/1,241,850	4/918,825	\$4/21,262,710	4/403,875	\$4/5,259,950	\$4/2,824,900	4/10,651,650

HAILSTORM LOSSES

YEAR 1949

Table 10—Continued

Section	August		September		October		November		December		Crop season April-Sept.		Total		
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property and crops
Alabama											(2)	(2)	(2)	(2)	(2)
Arizona			4/25,000	(6)							4/25,000	(6)	4/25,000	(6)	4/25,000
Arkansas											(6)	(6)	(6)	(6)	(6)
California															
Colorado	\$9,000	\$12,000		\$14,300							99,900	\$180,300	99,900	\$180,300	280,200
Florida											(2)	150,000	(2)	150,000	150,000
Georgia												63,500		63,500	63,500
Idaho		(2)									500	4/62,000	500	4/62,000	4/62,000
Illinois	2,000	3,000									2,000	90,000	2,000	90,000	92,000
Indiana	1,000	14,000									15,000	36,000	15,000	36,000	51,000
Iowa	(2)	(2)									(1)	(1)	(1)	(1)	(1)
Kansas	15,000	170,000									4/745,000	4/12,034,900	4/745,000	4/12,034,900	4/12,779,900
Kentucky		125,000	7,500	2,500			\$500				7,500	127,500	8,000	127,500	135,500
Louisiana											(2)	(2)	(2)	(2)	(2)
Maryland-Del.	(2)	(6)									(2)	(1)	(2)	(1)	(1)
Michigan	(1)	35,000		4,500			(1)				(1)	55,100	(1)	55,100	4/55,100
Minnesota		50,000									44,000	4/301,000	44,000	4/301,000	4/345,000
Mississippi															
Missouri		(1)	(2)	(2)							4/12,500	4/158,050	4/188,000	4/158,050	4/346,050
Montana	100	262,100									15,100	1,936,600	15,100	1,936,600	1,951,700
Nebraska	14,000	112,000									95,200	4,451,300	95,200	4,451,300	4,546,500
Nevada															
New England			(2)	(2)							(1)	4/5,000,000	(1)	4/5,000,000	4/5,000,000
New Jersey	1,000	1,000									2,000	2,000		2,000	4,000
New Mexico	50,500	50,000									241,700	239,050	241,700	239,050	480,750
New York															
North Carolina	2,000	30,150	500	1,800							120,500	1,184,560	120,500	1,184,560	1,305,060
North Dakota	30,000	1,800,000		18,000							2,580,000	6,118,000	2,580,000	6,118,000	8,698,000
Ohio												(2)		(2)	(2)
Oklahoma											256,000	5,541,500	256,000	5,541,500	5,797,500
Oregon											(1)	(1)	(1)	(1)	(1)
Pennsylvania															
South Carolina											25,000	(1)	25,000	(1)	4/25,000
South Dakota	25,000										(6)	(6)	(6)	(6)	(6)
Tennessee											1,830,000	3,590,400	1,830,000	3,590,400	5,420,400
Texas		525,000									1,000	1,000		1,000	1,000
Utah			1,000								4/25,000	4/301,500	4/25,000	4/301,500	4/326,500
Virginia															
Washington											4/16,000	4/3,350	4/16,000	4/3,350	4/19,350
West Virginia		(2)									(5)	(2)		(1)	(1)
Wisconsin											4/1,500	4/20,000	4/1,500	4/20,000	4/21,500
Wyoming															
Total	4/149,600	\$4/3,189,250	4/34,000	4/41,200			4/500				4/6,160,400	4/41,646,610	4/6,336,400	4/41,646,610	4/47,983,010

1. Losses occurred; no estimate.
2. Losses reported to be slight.
3. Undetermined portion of damage caused by snow and ice.
4. Additional losses occurred; no accurate estimate obtained.
5. Damage estimated to be several thousand dollars.
6. Considerable losses occurred; no accurate estimate available.
7. Undetermined portion of damage caused by attendant heavy rain.
8. Undetermined portion of damage caused by wind.

WINDSTORM LOSSES

Table 11

(Windstorms other than tornadoes)

YEAR 1943

Section	January		February		March		April		May		June		July	
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops
Alabama			\$15,000											
Arizona					(1)								(1)	
Arkansas	(1)	(1)							(1)	(1)			(1)	(2)
California	\$1,307,200	\$1,500	\$500		3/503,000				\$25,000		\$25,000	\$10,000		
Colorado														
Florida	20,000													
Georgia					9,000		\$5,000		19,800		4,500	500	\$22,500	\$5,900
Idaho							500				112,000	500	87,800	515,000
Illinois					5,000		15,000		147,250		819,080	1,500	295,750	90,000
Indiana							3/3,000		3/50,000		3/634,500	2,000	3/1,000	
Iowa									4,500	(1)			700	
Kansas							3/500							
Kentucky							75,000		3/100,000	(5)	3/370,500	(5)	3/471,000	(5)
Louisiana	(1)								(1)	(1)				
Maryland-Delaware					(1)		3/25		(4)		3/5,000	(1)	(1)	
Michigan			150				(1)		8,000		5,000		7,500	
Minnesota									(5)		(1)		50,000	100,000
Mississippi									(1)				(5)	(5)
Missouri														
Montana														
Nebraska														
Nevada			(1)											
New England			5,000		10,000		(1)							
New Jersey	(1)	(1)	5,000				10,000							
New Mexico														
New York							10,000		(5)	(5)	3/70,000	(1)	(5)	21,480
North Carolina							1,500	(1)	2,000		(5)	(5)	(5)	
North Dakota					8/80,000						75,000	75,000	1,800,000	250,000
Ohio									3/1,000		(1)		3/100,000	(4)
Oklahoma					300		(5)		2,000					
Oregon														
Pennsylvania	(5)						(5)		(5)	(5)	(5)		(5)	(5)
South Carolina					5,000						59,000	25,000	75	
South Dakota									1,000		12,500	(1)	3/4,500	(5)
Tennessee					3,700		10,000	(1)						
Texas									4,000	3/2,800	(5)		15,000,000	475,000
Utah	42,310												(5)	30,000
Virginia							(4)	(1)			11,000	16,000	11,000	5,000
Washington														
West Virginia													1,000	
Wisconsin					(4)				4,000		43,000	(1)		
Wyoming														
Total	3/1,374,510	3/1,500	3/20,650		3/5616,000		3/130,525	(1)	3/360,550	3/2,800	3/2,249,380	3/135,500	3/17,852,825	3/1,492,380

WINDSTORM LOSSES

Table 11-Continued

(Windstorms other than tornadoes)

YEAR 1943

Section	August		September		October		November		December		Crop season April-Sept.		Total		
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property and crops
Alabama													\$15,000		\$15,000
Arizona															
Arkansas	(1)										(1)		(1)		(1)
California	(1)	(1)					(1)				(1)		(1)		(1)
Colorado	\$25				\$9,400						3/25	(2)	3/317,125	3/1,500	3/1,318,625
Florida											50,000	\$10,000	3/553,000	10,000	3/563,000
Georgia	200	(1)									200	(1)	20,200	(1)	3/20,200
Idaho															
Illinois	500										52,300	6,400	61,300	6,400	67,700
Indiana											200,300	515,500	200,300	515,500	715,800
Iowa	185,500	\$126,200	\$25,000				\$20,000				1,487,580	217,700	1,512,580	217,700	1,730,280
Kansas	(1)										3/688,500	2,000	688,500	2,000	3/690,500
Kentucky											300		300		300
Louisiana											3/200	(1)	5,200	(1)	3/5,200
Maryland-Del.											3/500		3/500		3/500
Michigan	(5)	(5)	(4)	(5)	(4)		(4)				3/75,000	(5)	3/75,000	(5)	3/75,000
Minnesota	70,000	3/4,000	5,000	(5)							31,016,500	3/4,000	31,016,650	3/4,000	3/1,020,650
Mississippi							10,000				(1)		3/10,000	(1)	3/10,000
Missouri				(1)							3/5,025	(1)	3/5,025	(1)	3/5,025
Montana											3/15,500	5,000	3/15,500	5,000	3/20,500
Nebraska			4,150								3/54,150	100,000	3/54,150	100,000	3/154,150
Nevada											(5)	(5)	(5)	(5)	(5)
New England	(1)	(1)	(5)	(1)	(1)		(1)		(5)		(5)	(1)	(5)	(1)	(5)
New Jersey			10,000		20,000						20,000		65,000		65,000
New Mexico											(1)		(1)	(1)	(1)
New York											3/80,000	(5)	3/80,000	(5)	3/80,000
North Carolina	3/12,000										3/15,500	3/15,500	3/15,500	3/21,480	3/36,980
North Dakota											1,875,000	325,000	3/1,955,000	325,000	3/2,280,000
Ohio			(1)		(5)						3/101,000	(4)	3/101,000	(4)	3/101,000
Oklahoma			(9)	1,250	(5)						3/2,000	1,250	3/2,300	1,250	3/3,550
Oregon															
Pennsylvania	(5)	(5)									(5)	(5)	(5)	(5)	(5)
South Carolina	1,500										60,575	25,000	65,575	25,000	90,575
South Dakota	(5)	(1)									3/18,000	(5)	3/18,000	(5)	3/18,000
Tennessee			5,000	(1)							15,000	(1)	15,000	(1)	3/15,000
Texas	11,000	10,000	30,000	194,000							15,045,000	3/681,800	15,048,700	3/681,800	3/15,730,500
Utah											(5)		3/30,000	3/30,000	3/30,000
Virginia	6,000		45,000	15,000							73,000	36,000	73,000	36,000	109,000
Washington											(4)	(1)	(4)	(1)	(4)
West Virginia											1,000		1,000		1,000
Wisconsin	1,200	(1)					3/5,000				48,200	(1)	3/53,200	(1)	3/53,200
Wyoming															
Total	3/287,925	3/140,200	3/124,150	3/210,250	3/29,400		3/35,000	(1)	3/5,000		3/21,005,355	3/1,981,130	3/23,085,915	3/1,982,630	3/25,068,545

See reference notes at end of table.

WINDSTORM LOSSES

Table 11

(Windstorms other than tornadoes)

YEAR 1944

Section	January		February		March		April		May		June		July	
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops
Alabama					(5)		(5)	(5)			\$15,000		(5)	
Arizona													(5)	
Arkansas	\$1,000										72,500	\$1,374,000		
California											500			
Colorado											2,700			
Florida									\$500	\$1,000	17,700	5,500	\$10,000	(1)
Georgia														
Idaho							\$10,000	(1)						
Illinois							247,500		5,000		45,700		1,385,000	\$25,000
Indiana							11,000		48,000		10,000		5,500	11,000
Iowa							25,000		61,600		50,000		92,500	13,000
Kansas					\$8,000		212,000				30,000		250,600	
Kentucky					1,500						6,000			
Louisiana				(1)			600					4,000		
Maryland-Delaware			\$12,000										60,000	
Michigan					(1)	(1)	(1)	(1)			3,500		290,000	(1)
Minnesota							3,000		303,000		680,000	(5)	10,000	
Mississippi			200		(1)				15,000				8,000	25,000
Missouri			(5)				3 5,500	(5)			3 2,500		1,401,500	3 4,000
Montana	(1)	(1)												5,000
Nebraska	105,000		1,800								7,000	1,500	500	
Nevada											5,000			
New England											2,500			
New Jersey	10,000				5,000						3 520,000	3 5,000	(1)	
New Mexico											1,500	(5)	8,000	3,000
New York							80,000		200	600	1,500		90,000	110,000
North Carolina							750		10,000		15,000	2,000	90,000	(1)
North Dakota							34,675	5,000	30,000	(1)	3 252,000	(1)	275,175	3 89,000
Ohio									6,500					
Oklahoma	3 62,100													
Oregon					6,000				3,000		3,000	3,000	3,000	3,000
Pennsylvania									500	(1)	3 200,000	51,000	3 25,000	(5)
South Carolina													2,000	40,000
South Dakota											(5)	(5)		
Tennessee			15,000				225,000		25,000				(1)	(1)
Texas											37,000	6,000		
Utah														
Virginia					1,000	(1)								
Washington					(5)									
West Virginia														
Wisconsin					10,000		13,000		9,000		198,000	51,000	2,000	
Wyoming														
Total	3 \$178,100	(1)	3 \$29,000		3 \$141,500	(1)	3 \$868,025	3 \$5,000	3 \$517,300	3 \$1,600	3 \$1,677,100	3 \$1,503,500	3 \$3,918,775	3 \$328,000

WINDSTORM LOSSES

Table 11-Continued

(Windstorms other than tornadoes)

YEAR 1944

Section	August		September		October		November		December		Crop season April-Sept.		Total		
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property and crops
Alabama											3 \$15,000		3 \$15,000		3 \$15,000
Arizona											(5)		3 1,000		3 1,000
Arkansas									\$1,000		72,500	\$1,374,000	73,500	\$1,374,000	1,447,500
California											500		500		500
Colorado					\$13,000,000	\$50,000,000					3,200	1,000	13,003,200	50,001,000	63,004,200
Florida					250,000	5,000					37,700	3 5,500	287,700	310,500	3 298,200
Georgia											1,000	5,000	1,000	5,000	6,000
Idaho	\$1,000	\$5,000									1,684,200	25,000	1,684,200	25,000	1,709,200
Illinois			\$1,000								77,000	11,500	77,000	11,500	88,500
Indiana	500		2,000	\$500							302,100	48,000	302,100	48,000	350,100
Iowa	73,000	35,000									3 532,600		3 550,600	5,000	3 555,600
Kansas	3 40,000				10,000	5,000					6,000	4,000	7,500	4,000	11,500
Kentucky					(1)	(1)					600		3 600	(1)	3 600
Louisiana											623,500		635,500		635,500
Maryland-Del.			560,000								590,000	(4)	590,000	(4)	590,000
Michigan	300,000	(4)	(1)	(1)							1,635,000	(5)	1,635,000	(5)	3 1,635,000
Minnesota	639,000	(5)									27,500	25,000	3 27,700	25,000	3 52,700
Mississippi	4,500								(1)		31,409,500	3 4,000	31,409,500	3 4,000	3 1,413,500
Missouri	(5)	(5)									6,500	40,500	3 40,500		3 47,000
Montana	6,500	35,000									12,900	6,500	119,700	6,500	126,200
Nebraska	5,400	5,000									5,000		5,000		5,000
Nevada											90,000,000	10,000,000	92,000,000	10,000,000	102,000,000
New England			90,000,000	10,000,000			2,000,000				24,000,000	1,000,000	24,020,000	1,000,000	25,020,000
New Jersey			24,000,000	1,000,000					5,000		2,500		2,500		2,500
New Mexico											3 5 20,000	3 5,000	3 5770,000	3 5,000	3 6 775,000
New York	(5)		(9)	(9)			3 750,000				3 277,200	2,363,600	3 277,200	2,363,600	3 2,640,800
North Carolina	(5)	1,000,000	187,500	1,360,000							165,000	162,000	165,000	162,000	327,000
North Dakota	50,000	50,000									3 282,750	(1)	3 392,750	(1)	3 392,750
Ohio	(4)	(1)	(1)								316,350	3 94,000	3 378,450	3 94,000	3 472,450
Oklahoma		(5)									(5)		(5)		(5)
Oregon											18,000	12,000	200,000	150,000	350,000
Pennsylvania	3,000	3,000	6,000	3,000	3,000	3,000					3 386,100	3 105,000	3 386,100	3 105,000	3 491,100
South Carolina					200,000	150,000					2,000	40,000	2,000	40,000	42,000
South Dakota	160,600	54,000							1,500		3 330,000	(5)	3 346,500	(5)	3 346,500
Tennessee	80,000														
Texas											31,037,000	31,506,000	31,038,000	31,506,000	3 2,544,000
Utah		1,000,000	1,500,000								(5)		(5)		(5)
Virginia															
Washington															
West Virginia															
Wisconsin	614,000										836,000	51,000	846,000	51,000	897,000
Wyoming															
Total	3 \$1,977,500	3 \$1,137,000	3 \$1,575,500	3 \$1,863,500	3 \$13,463,000	3 \$50,163,000	3 \$2,750,000		3 \$7,500		3 \$127,715,200	3 \$16,838,600	3 \$141,284,300	3 \$67,051,600	3 \$208,335,900

See reference notes at end of table.

WINDSTORM LOSSES

Table 11

(Windstorms other than tornadoes)

YEAR 1945

Section	January		February		March		April		May		June		July	
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops
Alabama							\$50,000							
Arizona														
Arkansas											\$10,000	(5)		
California							200,000	\$500,000			(5)	\$50,000		
Colorado													\$4,000	
Florida							1,200							
Georgia							75,000	5,000						
Idaho											40,000			
Illinois					\$1,000				\$197,000	\$100,000	239,000	61,000	37,560	\$75,000
Indiana					202,500		44,600	500	43,000		504,000	10,000	11,000	8,000
Iowa					(5)		150,000		33,000	(5)	30,000	(5)	(5)	(5)
Kansas					(2)				19,500		542,000	311,000	8,000	9,500
Kentucky					26,000	(1)	150,000	(5)	50,000					
Louisiana					(5)						(1)	(1)		
Maryland-Delaware					600,000									
Michigan									65,000		3,000		25,800	1,000
Minnesota					12,000				(1)					
Mississippi					21,000	(1)	(5)	(5)	8,000	3 150,300	(4)	3 500	3 2,200	
Missouri					(1)		(4)	(1)	143,000	6,000			60,000	100,000
Montana	\$150				(1)				354,000		10,000		15,000	
Nebraska														
Nevada														
New England														
New Jersey	\$5,000						5,000		4,000					
New Mexico			\$900		(1)								(1)	
New York					3 75,000				3 55,000		(1)	(1)		
North Carolina														
North Dakota													10,000	30,000
Ohio							3 20,000				(1)	(1)		
Oklahoma					12,500				(5)	(5)	20,000		5,500	
Oregon					(4)		3 8,600		3 20,000	(5)	(5)	(5)	(5)	(5)
Pennsylvania					1,000				20,000		25,000		500	
South Carolina		\$1,000					(5)		(4)	(5)	(4)		(4)	20,000
South Dakota														
Tennessee					310,000	10,000	5,400				785,000	200,000		
Texas														
Utah														
Virginia					2,500						10,500		10,000	2,000
Washington			(4)				(1)							
West Virginia														
Wisconsin					7,500		51,800		10,000		(1)		(1)	(1)
Wyoming								(2)					5,000	1,000
Alaska														
Hawaii														
West Indies									2,000					
Total	\$5,150	\$1,000	3 \$900		3 \$671,000	3 \$10,000	1,361,600	3 \$505,500	1,016,000	3 \$153,000	2,433,800	\$632,000	3 \$192,860	3 \$248,700

WINDSTORM LOSSES

Table 11-Continued

(Windstorms other than tornadoes)

YEAR 1945

Section	August		September		October		November		December		Crop season April-Sept.		Total		
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property and crops
Alabama									\$2,000		\$50,000		\$52,000		\$52,000
Arizona															
Arkansas					3 6						10,000	(5)	10,000	(5)	3 10,000
California	\$40,000	\$160,000			\$50,000				3,500		3 240,000	\$710,000	3 9293,500	\$710,000	3 1,003,500
Colorado	5,000										9,000		9,000		9,000
Florida											1,200		1,200		1,200
Georgia											75,000	5,000	75,000	5,000	80,000
Idaho											40,000		40,000		40,000
Illinois	52,000	18,000	\$4,000								529,560	254,000	530,560	254,000	784,560
Indiana	15,000	10,000		\$1,000							617,600	29,500	820,100	29,500	849,600
Iowa	3 15,000	(5)	50,000				\$75,000				3 278,000	(5)	3 353,000	(5)	3 353,000
Kansas	15,000			250,000							584,500	609,500	584,500	609,500	1,194,000
Kentucky											50,000		3 50,000		3 50,000
Louisiana	(1)	(1)									3 150,000	(5)	3 176,000	(5)	3 176,000
Maryland-Del.			(1)	(5)							(5)	(5)	(5)	(5)	(5)
Michigan	600,000						114,828				1,200,000		1,314,828		3 1,314,828
Minnesota	2,500		32,000								128,800		140,800	1,000	141,800
Mississippi											(5)	(5)	3 21,000	(5)	3 21,000
Missouri	3 700	(1)					3 15,000				3 9294,500	3 10,200	3 309,500	3 10,200	3 319,700
Montana	20,500	47,000			(1)						145,500	153,000	3 145,650	153,000	3 298,650
Nebraska	90,000	75,000									469,000	75,000	469,000	75,000	544,000
Nevada															
New England							1,000,000						1,000,000		1,000,000
New Jersey			5,000				10,000				14,000		34,000		34,000
New Mexico									\$5,000		(1)		3 900		3 900
New York	(1)	(1)	30,000	(1)							3 85,000	(1)	3 160,000	(1)	3 160,000
North Carolina			(1)	165,500				(5)			(1)	165,500		165,500	
North Dakota											10,000	30,000	10,000	30,000	40,000
Ohio	(1)		(4)								3 20,000	(1)	3 20,000	(1)	3 20,000
Oklahoma	35,000	15,000			3 200						3 60,500	3 15,000	3 73,200	3 15,000	3 88,200
Oregon															
Pennsylvania	310,000	(5)					(5)				3 128,600	(5)	3 128,600	(5)	3 128,600
South Carolina			800,000	5,000,000							845,500	5,000,000	5,001,000		5,847,500
South Dakota											(5)	3 20,000	(5)	3 20,000	3 20,000
Tennessee															
Texas	6,133,000	14,000,000		60,000							6,923,400	14,260,000	7,233,400	14,270,000	21,503,400
Utah															
Virginia			5,000								25,500	2,000	28,000	2,000	30,000
Washington					(4)						(1)		(4)		(4)
West Virginia															
Wisconsin	8,000		45,000	51,000			32,500				3 114,800	3 51,000	3 154,800	3 51,000	3 205,800
Wyoming	5,000	1,000									10,000	2,000	10,000	2,000	12,000
Alaska					250,000				3 1,500		(2)		3 251,500		3 251,500
Hawaii									(1)				(1)		(1)
West Indies	(1)		(4)		(4)	(1)			3 2,000		3 2,000		3 2,000	(1)	3 2,000
Total	\$7,136,700	\$14,326,000	\$971,000	\$5,527,500	\$300,200	(1)	\$1,247,328		3 \$12,000		3 \$9	3 \$9	3 \$6 9	3 \$9	3 \$9
											13,111,960	21,392,700	15,348,538	21,403,700	\$36,752,238

See reference notes at end of table.

WINDSTORM LOSSES

Table 11

(Windstorms other than tornadoes)

YEAR 1946

Section	January		February		March		April		May		June		July	
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops
Alabama					\$100,000		\$500,000		\$5,000				(2)	
Arizona														
Arkansas							10,000							
California		\$1,500,000			(1)	(4)				(1)				
Colorado									300,000	\$400,000	\$3,000			
Florida														
Georgia					55,000	\$5,000								
Idaho											(1)			
Illinois			\$8,600		9,500						83,000	\$95,000	\$13,250	\$1,500
Indiana			6,000								66,000	10,000	2,000	1,000
Iowa									3/ 75,000	(1)	3/ 185,000	131,000	50,000	25,000
Kansas	\$25,000				13,500				6,000		90,000	10,000	4,500	5,000
Kentucky														
Louisiana	(4)	(4)	(4)	(1)			100,000		3/ 5,000	3/ 10,000			10,000	
Maryland-Delaware														
Michigan					300,000		(1)		(2)	(1)	(1)	(1)		
Minnesota			(4)								238,400	(4)	11,200	(1)
Mississippi	7,500		1,000						3/ 10/ 270,000	3/ 10/ 50,000	3/ 33,500	3/ 7,000	3/ 500	(5)
Missouri					3/ 6,000	(5)							100,000	150,000
Montana														
Nebraska									329,000		303,500	10,000	3,650	500
Nevada														
New England														
New Jersey	4,000		4,000		1,000		1,000		5,000		1,000,000	50,000		
New Mexico													(1)	(1)
New York											3/ 1,050,000		3/ 100,000	
North Carolina							350			5,000		3,000		10,000
North Dakota											50,000	10,000	30,000	10,000
Ohio			1,000,000								3/ 10,500	(1)	(1)	(1)
Oklahoma							14,000		32,000	(1)				
Oregon									500					
Pennsylvania			5,000		8,000								5,000	
South Carolina			2,500		4,500						12,400			
South Dakota			(1)								3,250	1,000		
Tennessee							175,000	(1)	(1)		750,000	250,000	(1)	(1)
Texas	25,000				(2)		50,000		400,000					
Utah														
Virginia										2,500		10,000	2,000	8,000
Washington														
West Virginia	(5)		(5)		(5)	(5)	(1)	(1)	(5)	(5)	(5)	(5)	(1)	(1)
Wisconsin					7,000				50,000		81,500			
Wyoming											15,000			
Alaska			6,000,000											
Hawaii				(1)		(1)		(1)						
Total	3/ \$61,500	3/ \$1,500,000	3/ \$7,027,100	(1)	3/ \$504,500	3/ \$5,000	3/ \$850,350	(1)	3/ 10/ \$1,488,000	3/ 10/ \$467,500	3/ \$3,975,050	3/ \$599,000	3/ \$332,600	3/ \$211,000

WINDSTORM LOSSES

Table 11-Continued

(Windstorms other than tornadoes)

YEAR 1946

Section	August		September		October		November		December		Crop season April-Sept.		Total		
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property and crops
Alabama	\$100,000						\$10,500				3/ \$505,000		3/ \$615,500		3/ \$615,500
Arizona											100,000		100,000		100,000
Arkansas											10,000		26,078		26,078
California	(4)	(4)							\$16,078	(4)	(4)		\$1,500,000	3/ 1,500,000	3/ 1,500,000
Colorado											3,000		3,000		3,000
Florida											300,000	\$400,000	300,000	400,000	700,000
Georgia													63,000	5,000	68,000
Idaho											(1)		(1)		(1)
Illinois	3,386,500	5,646,500	8,000								3,490,750	5,743,000	3,508,850	5,743,000	9,251,850
Indiana	5,000	1,000									73,000	12,000	79,000	12,000	91,000
Iowa	3/ 60,000	3/ 44,500	(2)	(2)							3/ 370,000	3/ 200,500	3/ 370,000	3/ 200,500	3/ 570,500
Kansas	3/ 312,000	3/ 20,000	3/ 66,500	3/ 68,500	76,000						3/ 479,500	3/ 103,500	3/ 594,000	3/ 103,500	3/ 697,500
Kentucky											100,000		100,000		100,000
Louisiana							(1)	(1)			3/ 15,000	3/ 10,000	3/ 15,000	3/ 10,000	3/ 25,000
Maryland-Del.	8,000										8,000		8,000		8,000
Michigan	(1)	(1)		(4)							(1)	(4)	3/ 300,000	(4)	3/ 300,000
Minnesota	138,500	15,000	808,000	92,000							1,196,100	3/ 107,000	3/ 1,196,100	107,000	3/ 1,303,100
Mississippi											10/ 6,500		10/ 9,000		10/ 9,000
Missouri	3/ 100,000	(5)	3/ 47,000	3/ 3,000	(1)						3/ 451,000	3/ 196,000	3/ 645,000	3/ 60,000	3/ 705,000
Montana											110,000	162,000	125,000	162,000	287,000
Nebraska	10,000		9,000				15,000				655,150	10,500	655,150	10,500	665,650
Nevada															
New England	20,000								40,000		1,025,000	50,000	1,065,000	50,000	1,115,000
New Jersey	(1)	(1)							5,000		3/ 1,000	(1)	3/ 15,000	(1)	3/ 15,000
New Mexico					(1)						(1)		(1)		(1)
New York											3/ 1,150,000		3/ 1,150,000		3/ 1,150,000
North Carolina	(4)	500	(2)								3/ 350	18,500	3/ 350	18,500	3/ 18,850
North Dakota									20,000		80,000	20,000	100,000	20,000	120,000
Ohio	(4)										3/ 32,000	(1)	3/ 1,032,000	(1)	3/ 1,032,000
Oklahoma											3/ 25,000		3/ 25,000		3/ 25,000
Oregon					5,000								5,000		5,000
Pennsylvania			10,000								27,400		40,400		40,400
South Carolina			3,500								6,750		13,750		14,750
South Dakota											3/ 925,000	3/ 250,000	3/ 925,000	3/ 250,000	3/ 1,175,000
Tennessee									850,000				850,000		850,000
Texas							(4)				450,000		3/ 475,000		3/ 475,000
Utah															
Virginia	5,000	5,000	15,000								22,000	25,500	22,000	25,500	47,500
Washington				(1)							(1)		(1)		(1)
West Virginia	(1)	(1)	7,000	(1)	(1)	(1)	(1)	(1)	(1)		3/ 7,000	(5)	3/ 7,000	(5)	3/ 7,000
Wisconsin	64,000	5,000	(1)								195,500	5,000	3/ 202,500	5,000	3/ 207,500
Wyoming			1,000								16,000		16,000		16,000
Alaska					400,000								6,400,000		6,400,000
Hawaii						(1)						(1)		(1)	(1)
Total	3/ \$4,209,000	3/ \$5,737,500	3/ \$975,000	3/ \$163,500	3/ \$489,000	(1)	3/ \$25,500	(1)	3/ \$931,078	(4)	3/ 6/ 10/ \$11,830,000	3/ 6/ 10/ \$7,178,500	3/ 6/ 10/ \$20,868,678	3/ 6/ 10/ \$8,683,500	3/ 6/ 10/ \$29,552,178

See reference notes at end of table.

WINDSTORM LOSSES

Table 11

(Windstorms other than tornadoes)

YEAR 1947

Section	January		February		March		April		May		June		July	
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops
Alabama											\$5,000			
Arizona														
Arkansas							\$150,000		\$200,000	\$1,330,000	8,000	\$1,273,000		
California											(1)			
Colorado									2,000					
Florida					\$57,000				600				\$3,840	
Georgia							200		13,000		6,900	500	100	
Idaho													3/30,000	(4)
Illinois	\$300,000				300,000		550,000				1,000,000		35,000	
Indiana	50,000				150,000		5,000		5,000				100,000	\$70,000
Iowa	200,000						350,000				75,000	150,000	100,000	20,000
Kansas							500,000		23,000	4,500	578,500	52,400	20,000	19,000
Kentucky	1,000				5,000	\$1,000			10,000					
Louisiana														
Maryland-Delaware					(5)				3/60,000		3/500,000		(5)	
Michigan					(1)		(1)						(1)	(1)
Minnesota											3/670,000	(4)	3/9,500	
Mississippi	1,000						17,000	\$7,800			12,000	18,000	25,000	10,000
Missouri	3/150,000						3/12,550	(1)	3/100,000	(1)	3/13,500	(1)	3/2,000	(1)
Montana	10,000										1,500		500	32,000
Nebraska			\$2,500				100		(5)		2,000,000	100,000	15,000	100,000
Nevada														
New England					2,000,000									
New Jersey	50,000		50,000		75,000		40,000		40,000		25,000	5,000	25,000	5,000
New Mexico														
New York					(5)				100,000				3/5,000	
North Carolina													12,000	
North Dakota													200,000	20,000
Ohio	(5)				(5)		(5)		3/5,000		(5)			
Oklahoma							11,000						22,000	
Oregon													20,000	180,000
Pennsylvania	500				(5)		(4)		217,000		(1)		3/500	(4)
South Carolina					13,000						5,000		10,000	25,000
South Dakota											67,500			
Tennessee					13,000		30,000	2,500	132,000	15,000				5,000
Texas									27,000	5,000				
Utah														
Virginia					(4)		10,000				3/200,000	200,000	3/25,000	3/10,000
Washington													28,000	30,000
West Virginia					3/100,000				500				500	
Wisconsin	100,000				(2)		3/5,500		(2)	(1)	1,042,154	48,500	132,000	(2)
Wyoming											(4)	(4)		
Total	3/862,500		\$52,500		\$3/2,713,000	\$1,000	\$3/1,681,350	3/10,300	\$3/1,058,100	\$3/1,354,500	\$3/6,210,054	\$3/1,847,400	3/820,940	3/526,000

WINDSTORM LOSSES

Table 11-Continued

(Windstorms other than tornadoes)

YEAR 1947

Section	August		September		October		November		December		Crop season April-Sept.		Total	
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops
Alabama	3/15,000			(5)							3/20,000		3/20,000	\$20,000
Arizona	12,000	(5)									12,000	(5)	12,000	3/12,000
Arkansas											358,000		358,000	358,000
California	(1)	\$127,000									(5)	\$2,730,000	3/2,730,000	3/2,730,000
Colorado											2,000		2,000	2,000
Florida	300		\$23,900,000	\$12,000,000	\$1,050,000	\$25,000	\$53,000				23,904,740	12,000,000	25,064,740	12,025,000
Georgia	12,000	1,000			3/3,000,000	3/150,000	400				32,200	1,500	3,032,600	151,500
Idaho	500		(5)	(4)							3/30,500	(4)	3/30,500	3/30,500
Illinois	50,000	20,000									1,635,000	20,000	2,235,000	20,000
Indiana	60,000	10,000	45,000	5,000							215,000	85,000	415,000	85,000
Iowa	(1)	(1)	50,000	(1)							3/575,000	3/170,000	3/775,000	3/170,000
Kansas	3/5,200	(5)	(5)	(5)	\$3,500						3/1,126,700	3/75,900	3/1,130,200	3/75,900
Kentucky	300,000	75,000	200,000								3/510,000	75,000	3/516,000	76,000
Louisiana	(4)		3/5,000,000				2,000		\$5,000		3/510,000	3/516,000	3/516,000	3/516,000
Maryland-Del.	(5)		(4)				(4)				3/560,000		3/560,000	3/560,000
Michigan	70,000	(4)	40,000	500,000							3/110,000	3/500,000	3/500,000	3/500,000
Minnesota	20,000		3/45,000				775,000				3/744,500	(5)	3/1,519,500	(5)
Mississippi	5,000		26,438,000	2,000,000					(4)		26,497,000	3/2,035,800	3/26,498,000	3/2,035,800
Missouri	3/5,000		(5)	(5)							3/133,050		3/283,050	3/283,050
Montana	2,700	29,000									4,000	61,000	61,000	75,700
Nebraska	17,000										3/2,032,100	200,000	3/2,034,600	200,000
Nevada														
New England	(5)		20,000,000	(5)							3/20,000,000		3/20,000,000	3/20,000,000
New Jersey	40,000	5,000	20,000	5,000	15,000		1,075,000				190,000	20,000	23,075,000	3/23,075,000
New Mexico							50,000						480,000	20,000
New York			(4)											
North Carolina	50,000	25,000									3/105,000		3/105,000	3/105,000
North Dakota											12,000		12,000	12,000
Ohio	(5)		(2)	(5)							250,000	45,000	250,000	295,000
Oklahoma	400										3/5,000		3/5,000	3/5,000
Oregon					2,000						158,400		158,400	158,400
Pennsylvania	(4)	(4)	3/40,000		(1)		(1)		(4)		20,000	180,000	20,000	180,000
South Carolina					35,000	150,000					3/257,500	(4)	3/258,000	(4)
South Dakota											15,000	25,000	63,000	175,000
Tennessee	12,000	1,000	10,000				3,000	1,500			67,500		67,500	67,500
Texas	623,000	257,500	6,700						103,000		184,000	23,500	303,000	25,000
Utah							25,000		77,650		656,700	262,500	759,350	262,500
Virginia	800													
Washington											3/235,800	3/10,000	3/235,800	3/10,000
West Virginia	250										28,000	30,000	28,000	30,000
Wisconsin	355,000	40,000					50,000				1,250		3/101,250	3/101,250
Wyoming											3/1,534,654	3/88,500	3/1,684,654	3/88,500
Total	3/1,656,150	3/590,500	\$89,794,700	\$19,510,000	\$4,108,500	\$326,500	\$2,030,400		3/235,650	\$3/101,221,294	\$3/23,838,700	\$3/111,223,844	\$3/24,166,200	3/135,390,044

See reference notes at end of table.

WINDSTORM LOSSES

Table 11

(Windstorms other than tornadoes)

YEAR 1948

Section	January		February		March		April		May		June		July	
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops
Alabama	\$6,500				\$6,000		(1)		\$152,000		\$3,500			
Arizona			\$2,000											
Arkansas					10,000		\$10,000				63,000		\$10,000	
California	500				100		2,017,500	\$8,175,000	50,000		40,000	\$65,000		\$10,000
Colorado							(1)	(1)	500				35,000	10,000
Florida					5,000		7,100		2,000				700	
Georgia					30,000		10,000		500		650	(1)		
Idaho					(1)		(1)		12,000		(1)			
Illinois					2,000				200,000				105,000	245,000
Indiana			5,000		4,000,000						1,135,000		2,000	
Iowa													308,000	(5)
Kansas									295,000		3,867,000	3,361,000	6,175,000	1,119,000
Kentucky					10,000		11,000	10,000			4,000		12,000	
Louisiana					20,000		20,000		20,000	(5)	3,13,000	(5)		
Maryland-Delaware					11,000		(5)		3,20,000		3,210,000		(5)	
Michigan	500,000		(1)		(1)		(1)	(1)			300,000	(1)	(1)	(1)
Minnesota			25,000						68,000		76,000		70,000	
Mississippi							50,000		(5)					
Missouri	(1)		1,000		3,15,500		3,800		334,500	(1)	3,109,100	3,15,950	3,2,000	(1)
Montana			6,000										5,300	572,000
Nebraska													77,000	500
Nevada							(2)	(2)	(2)	(2)	69,700	50,000		
New England											8,000		250,000	
New Jersey													80,000	(1)
New Mexico													(4)	(4)
New York					750,000		350,000		(4)		(4)			
North Carolina									(1)	15,000	(4)	(4)		
North Dakota	15,000		18,000										20,000	10,000
Ohio			(1)		(1)	(1)	2,500		500,000		3,25,000	3,10,000	(1)	(1)
Oklahoma			1,000		20,000		6,000		8,500		102,000	71,000	25,000	
Oregon			9,000											
Pennsylvania											(1)	(1)	(1)	(1)
South Carolina					2,500		10,000		111,000		20,000	17,000	2,500	
South Dakota													5,000	5,000
Tennessee	500				8,500						15,000	800	250,000	1,000
Texas			132,850		7,500		3,000		155,000		2,000		300	
Utah														
Virginia													25,000	3,000
Washington									(1)					
West Virginia					3,50,000		10,000						(1)	(1)
Wisconsin			51,000		15,437				40,000		21,700	(1)	52,500	4,000
Wyoming														
Hawaii	250,000	(1)	(5)	(5)	(5)	(5)	(1)	(5)	(5)	(5)			(5)	(5)
Total	3,772,500	(1)	3,250,850	(5)	4,963,537	(5)	2,507,900	8,185,000	1,969,000	3,15,000	3,084,650	3,615,750	7,516,300	1,975,500

WINDSTORM LOSSES

Table 11-Continued

(Windstorms other than tornadoes)

YEAR 1948

Section	August		September		October		November		December		Crop season April-Sept.		Total		
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property and crops
Alabama											3,155,500		3,233,000		3,233,000
Arizona	\$20,000		\$10,000								30,000		32,000		32,000
Arkansas	35,000										118,000		268,000		268,000
California											2,107,500	\$8,250,000	2,118,100	\$9,250,000	11,368,100
Colorado				\$50,000	\$		250,000	\$50,000	\$10,000	1,000,000	3,35,500	3,60,000	3,285,500	3,110,000	395,500
Florida	2,000		5,500,000	6,500,000	4,000,000	1,500,000	500,000		2,500		5,511,800	6,500,000	10,019,300	8,000,000	18,019,300
Georgia											11,150	(1)	41,150	(1)	41,150
Idaho											3,12,000		3,12,000		3,12,000
Illinois	537,000	\$229,000	1,600		5,000		43,000		14,000		843,600	474,000	907,600	474,000	1,381,600
Indiana			20,000								1,157,000		5,162,000		5,162,000
Iowa	30,000	(5)	25,000								3,363,000	3,25,000	3,363,000	3,25,000	3,388,000
Kansas	205,000	25,000	8,000								7,550,000	4,505,000	7,550,000	4,505,000	12,055,000
Kentucky	40,000	210,000									67,000	220,000	77,000	220,000	297,000
Louisiana			600,000	60,000	2,000		225,000				3,653,000	3,60,000	3,900,000	3,60,000	3,960,000
Maryland-Del.											3,230,000		3,241,000		3,241,000
Michigan	(1)	(1)					(1)		(1)		3,300,000	(1)	3,800,000	(1)	3,800,000
Minnesota	3,304,000	(4)					(4)				3,518,000	(4)	3,543,000	(4)	3,543,000
Mississippi	(5)	(5)	80,000	60,000			65,000				3,130,000	3,60,000	3,195,000	3,60,000	3,255,000
Missouri	11,200		(1)				(1)	(1)	3,6,700	(1)	3,457,600	3,15,950	3,480,800	3,15,950	3,496,750
Montana	25,500	17,500							2,500		30,800	589,500	39,300	589,500	628,800
Nebraska	3,6,000	3,7,000							(2)	(2)	3,152,700	3,57,500	3,152,700	3,57,500	3,210,200
Nevada															
New England			(2)		(2)		(2)		250,000		3,258,000		3,508,000		3,508,000
New Jersey									1,000,000				1,000,000		3,1,000,000
New Mexico											80,000		80,000		80,000
New York	(4)						8,000				3,350,000	(1)	3,1,108,000	(1)	3,1,108,000
North Carolina											(4)	3,15,000	3,15,000	3,15,000	3,15,000
North Dakota	15,000	15,000									35,000	25,000	60,000	25,000	33,000
Ohio			(4)				(4)	(1)	(4)		3,527,500	3,10,000	3,527,500	3,10,000	3,537,000
Oklahoma											141,500	71,000	162,500	71,000	233,500
Oregon													9,000		9,000
Pennsylvania	(1)						(1)	(1)	(1)		(1)	(1)	(1)	(1)	(1)
South Carolina	50,000						5,000				193,500	17,000	201,000	17,000	218,000
South Dakota	100,000										105,000	5,000	105,000	5,000	110,000
Tennessee											265,000	1,800	274,000	1,800	275,800
Texas	36,500	1,000				90,075					196,800	1,000	337,150	91,075	428,225
Utah															
Virginia	17,200	38,000	1,000								43,200	41,000	43,200	41,000	84,200
Washington			5,000	20,000	6,000		86,600				3,5,000	20,000	3,97,600	20,000	3,117,600
West Virginia											3,10,000	(1)	3,60,000	(1)	3,60,000
Wisconsin	3,57,000		(1)		21,000		(4)		21,500		3,171,200	(1)	3,280,137	(1)	3,280,137
Wyoming	(5)	(5)									3,4,000	(5)	3,4,000	(5)	3,4,000
Hawaii	(5)	(5)	(5)	(5)	500	(5)	(5)	20,000			(5)	(5)	3,250,500	3,20,000	3,270,500
Total	1,491,400	3,542,500	3,625,600	6,690,000	4,034,500	1,590,075	1,387,600	3,70,000	1,307,200	1,000,000	22,819,850	21,023,750	35,536,037	23,683,825	59,219,862

See reference notes at end of table.

WINDSTORM LOSSES

Table 11

(Windstorms other than tornadoes)

YEAR 1949

Section	January		February		March		April		May		June		July	
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops
Alabama					(1)		\$22,500		\$8,000		\$4,220		(5)	
Arizona									(2)	(4)	3/ 950,000			
Arkansas														
California	\$500,000								12,000	\$13,000	1,000	\$500	\$4,000	\$1,000
Colorado					\$800		500		3,000		(1)		500	
Florida					10,000		6,000		16,000		6,500		1,000	
Georgia	(4)		(4)								3/ 20,000			
Idaho									70,000	10,000	50,000	10,000	33,000	10,000
Illinois	201,000						3,000		78,000	22,000	5,000	1,000		
Indiana									10,000		30,000	(1)		
Iowa									3/ 90,000	3/ 10,000	3/ 98,000	3/ 121,500	45,000	5,000
Kansas					5,000				40,000		(4)		2,000	
Kentucky	3/ 6,000								(5)	(5)	(5)		5,000	
Louisiana									(4)	(4)	(4)	(1)	(1)	(5)
Maryland-Delaware	75,000								(5)	(5)	(5)		3/ 30,000	
Michigan									(4)	(4)	(4)	(1)	25,000	5,000
Minnesota					23,000		75,000	(1)	3/ 65,200	(1)	95,500	(5)	3/ 30,000	
Mississippi					3/ 1,000		3/ 6,000		3/ 5,000	(4)	3/ 2,000	2,200	(4)	
Missouri	1,500		\$10,200	\$500							11,000	1,000	53,000	700,000
Montana									250,000		35,600			
Nebraska														
Nevada														
New England									5,000				995,000	100,000
New Jersey														
New Mexico														
New York									(1)	(1)			(4)	
North Carolina					12,000		(5)	(4)	7/ 108,500	(5)	90,000	30,000	40,000	(2)
North Dakota									40,000	15,000	30,000		30,000	
Ohio	3/ 7,500								3/ 5,000		3/ 15,000	(1)		
Oklahoma			15,000		1,000		1,500		1,260,200	542,000	3/ 4,500		2,000	14,000
Oregon														
Pennsylvania							5,100		(5)	(5)	(5)			
South Carolina														
South Dakota	1,000,000				500,000				(4)	(4)	(4)	(4)		
Tennessee					10,000									
Texas					67,500	\$3,000	35,000		593,000		13,000	78,100	40,000	
Utah											8,000	2,000		
Virginia							1,000		(1)				13,000	(5)
Washington							(5)	(5)	(5)	(5)			500	
West Virginia							(5)	(5)	3/ 104,000	3/ 750	6/ 50,000	(5)	6/ 1,500	6/ 2,000
Wisconsin	10,000		(5)		150,000		65,000		6/ 130,000		(1)		6/ 500,000	(1)
Wyoming														
Hawaii	3/ 125,000	(2)												
West Indies			10,000											
Total	\$ 3/ 1,926,000	(2)	3/ \$35,200	\$500	3/ \$780,300	\$3,000	3/ \$235,600	(5)	\$ 3/ 2,892,900	3/ \$612,750	3/ \$569,320	3/ \$266,300	\$ 3/ 1,790,500	3/ \$867,000

WINDSTORM LOSSES

Table 11-Continued

(Windstorms other than tornadoes)

YEAR 1949

Section	August		September		October		November		December		Crop season April-Sept.		Total		
	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property	Crops	Property and crops
Alabama	\$135,400		6/ 2/								\$170,120		3/ \$170,120		3/ \$170,120
Arizona	3/ 110,000		3/ \$100,000	(5)	(5)	(5)			\$1,500		3/ 260,000	(5)	3/ 261,500	(5)	3/ 261,500
Arkansas											(2)	(4)	(5)	(5)	(5)
California			15,000						60,000		15,000		75,000		75,000
Colorado	500	\$7,000		14,000	\$450,000	\$25,000					3/ 17,500	\$35,500	3/ 967,500	\$60,500	1,028,000
Florida	25,000,000	20,000,000	(1)								25,004,000	20,000,000	25,004,800	20,000,000	3/ 45,004,800
Georgia	600,000	150,000					3/ 400,000				629,500	150,000	639,500	150,000	789,500
Idaho	(5)		(5)				20,000				(5)	3/ 20,000	3/ 400,000	20,000	420,000
Illinois	9,000				16,000	100,000					162,000	30,000	198,000	130,000	328,000
Indiana	1,000	15,000									87,000	38,000	288,000	38,000	326,000
Iowa					3,000,000	(5)					40,000	(1)	3,040,000	(5)	3/ 3,040,000
Kansas	(5)	(5)	200,000		3/ 545,000	1,000					3/ 433,000	3/ 136,500	3/ 978,000	3/ 137,500	3/ 1,115,500
Kentucky											42,000		47,000		47,000
Louisiana	10,000		92,500	(1)		(4)					102,500	(1)	3/ 108,500	(4)	3/ 108,500
Maryland-Del.	(5)										3/ 5,000	(5)	3/ 5,000	(5)	3/ 5,000
Michigan					100,000	(1)	(1)	(1)			(4)	(5)	3/ 175,000	(5)	3/ 175,000
Minnesota	33,300				2,500,000	(4)					3/ 299,000	(5)	3/ 2,799,000	(4)	3/ 2,799,000
Mississippi			12,500	(4)							52,500	3/ 5,000	75,500	3/ 5,000	3/ 80,500
Missouri											3/ 13,000	2,200	3/ 215,500	2,200	3/ 217,700
Montana	1,000	10,000					30,300	13,500	200,000		65,000	711,000	105,500	725,000	830,500
Nebraska	10,000				151,000	504,000					295,600		446,600	504,000	950,600
Nevada															
New England															
New Jersey			(1)								3/ 1,000,000	100,000	3/ 1,000,000	100,000	3/ 1,100,000
New Mexico															
New York			(1)	(1)							(4)	(1)	(4)	(1)	(4)
North Carolina	3/ 71,000	3/ 90,000					(2)				3/ 179,500	3/ 90,000	3/ 191,500	3/ 90,000	3/ 281,500
North Dakota					35,000	15,000	5,000				170,000	75,000	210,000	90,000	300,000
Ohio	(1)										3/ 20,000	(1)	3/ 27,500	(1)	3/ 27,500
Oklahoma		700			10,000						3/ 268,200	556,700	3/ 294,200	556,700	3/ 1,850,900
Oregon															
Pennsylvania											3/ 5,100	(5)	3/ 5,100	(5)	3/ 5,100
South Carolina	500,000	1,000,000									500,000	1,000,000	1,000,000	1,000,000	1,500,000
South Dakota	(5)				500,000	(5)					(5)		3/ 2,000,000	(5)	3/ 2,000,000
Tennessee									(4)	(1)	(4)	(4)	3/ 10,000	(4)	3/ 10,000
Texas	20,000				25,000						701,000	78,100	793,500	81,100	874,600
Utah											8,000	2,000	8,000	2,000	10,000
Virginia	50,000	6/ 150,000									3/ 64,000	3/ 150,000	3/ 64,000	3/ 150,000	3/ 214,000
Washington			(5)	(5)			275,000		1,000		3/ 500	(5)	3/ 276,500	(5)	3/ 276,500
West Virginia					3/ 1,000,000						3/ 155,500	3/ 2,750	3/ 155,500	3/ 2,750	3/ 158,250
Wisconsin	(5)	(5)							(2)		3/ 67,695,000	(5)	3/ 67,855,000	(5)	3/ 67,855,000
Wyoming							45,000	(4)			(1)	(1)	3/ 45,000	(4)	3/ 45,000
Hawaii													3/ 125,000	(2)	3/ 125,000
West Indies	30,000		304,000	727,000							334,000	727,000	344,000	727,000	1,071,000
Total	\$ 3/ 26,581,200	\$ 3/ 21,422,700	3/ 6/ 724,000	3/ 741,000	\$ 3/ 8,332,000	3/ 645,000	3/ 775,300	3/ \$13,500	3/ \$262,500	(1)	\$ 3/ 32,793,520	\$ 3/ 23,909,750	\$ 3/ 44,904,820	\$ 3/ 24,571,750	3/ 66,476,570

1. Damage reported to be slight.
2. Amount of damage reported to be several thousand dollars.
3. Additional losses occurred.
4. Amount of damage reported to be considerable.
5. Losses occurred; amount not reported.

6. Damage from attendant heavy rains.
7. Includes crop damage.
8. Damage from attendant snow.
9. Damage from attendant hail.
10. Damage from attendant tornadoes.

Table 13

SUNSHINE, AMOUNT AND PERCENT

YEAR 1943

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible
ALABAMA																										
Birmingham	179	57	212	69	212	57	299	76	333	77	350	81	236	54	285	69	225	61	219	62	239	77	133	43	2922	66
Mobile	147	46	194	62	200	54	298	77	316	74	292	69	263	61	297	72	188	51	279	79	255	80	165	52	2894	65
Montgomery	168	51	202	65	190	51	288	74	323	75	320	75	317	73	346	84	248	67	275	78	253	80	150	48	3080	69
ARIZONA																										
Phoenix	185	58	234	76	286	77	335	86	402	93	373	87	339	78	314	76	327	88	298	85	297	95	193	62	3583	81
Yuma	260	82	273	89	332	89	361	92	420	98	401	94	419	96	362	87	354	95	337	96	305	97	246	79	4070	99
ARKANSAS																										
Fort Smith	208	67	217	71	210	57	299	76	244	56	319	73	389	88	345	83	220	59	215	61	230	74	119	39	3015	68
Little Rock	223	71	236	77	224	60	270	69	228	53	319	74	337	76	360	86	204	55	233	66	227	73	130	43	2991	67
CALIFORNIA																										
Eureka	157	53	180	60	205	55	227	57	307	68	301	67	281	61	221	52	203	54	137	40	135	46	128	45	2482	56
Fresno	149	48	197	65	231	62	286	73	411	94	416	94	441	99	418	99	360	97	303	87	220	72	137	46	3569	80
Los Angeles	206	65	231	75	225	61	260	67	298	69	316	73	348	79	344	83	314	84	264	75	261	84	180	58	3247	73
Sacramento	169	56	160	53	220	59	269	68	382	86	404	91	427	94	422	100	356	95	251	73	208	69	139	47	3407	76
San Diego	203	64	227	74	238	64	230	59	252	59	272	63	290	66	259	63	261	70	229	65	260	83	166	53	2887	65
San Francisco	211	69	218	72	247	66	305	77	371	84	350	79	318	71	324	77	249	67	261	75	212	70	155	52	3221	72
COLORADO																										
Denver	233	77	245	82	269	72	290	73	220	49	322	72	364	80	297	70	310	83	269	78	194	65	192	66	3205	72
Grand Junction	169	56	232	77	285	77	348	88	346	78	279	63	305	75	258	61	316	85	292	84	252	84	141	48	3223	72
Pueblo	240	78	256	85	279	75	283	72	275	62	371	84	375	83	318	75	314	84	305	88	229	75	184	62	3429	77
CONNECTICUT																										
Hartford	153	52	203	68	213	57	223	56	262	58	333	73	306	66	296	69	221	59	113	33	163	59	197	69	2683	60
New Haven	158	53	207	69	214	58	252	63	259	58	327	72	311	68	325	76	243	65	197	57	198	67	240	83	2931	66
FLORIDA																										
Apalachicola	191	59	255	82	252	68	291	75	274	65	208	50	270	63	286	70	181	49	271	76	198	62	134	42	2811	63
Jacksonville	185	57	248	79	253	68	322	83	305	72	284	67	259	60	272	67	161	44	229	65	201	60	189	60	2908	65
Key West	261	78	270	85	279	75	266	69	311	75	248	60	261	62	232	51	209	57	192	53	165	50	209	63	2903	65
Miami	244	74	257	81	294	79	269	70	306	74	270	65	251	60	245	61	217	59	214	60	178	54	175	54	2920	66
Pensacola	178	55	237	76	249	67	306	79	332	78	292	69	293	68	330	81	217	59	285	80	245	77	160	50	3124	70
Tampa	235	71	259	82	259	70	290	75	225	53	229	55	147	34	170	42	200	54	217	61	222	69	220	68	2673	60
GEORGIA																										
Atlanta	120	38	189	61	184	49	270	69	284	66	290	67	232	53	292	70	240	65	228	65	232	74	168	55	2729	61
Augusta	158	50	259	84	244	66	321	82	346	80	361	84	328	75	349	84	291	78	294	84	262	84	213	69	3426	77
Macon	175	55	228	74	211	57	308	79	312	73	317	74	288	66	280	68	238	64	227	64	240	76	193	62	3017	68
Savannah	225	70	254	82	241	65	308	79	330	77	326	76	306	70	315	76	267	72	287	81	276	87	226	72	3361	76
IDAHO																										
Boise	86	30	174	59	202	54	230	57	275	60	306	66	414	88	391	90	346	92	154	45	121	42	153	55	2852	64
Pocatello	102	35	163	55	220	59	265	66	315	69	306	67	393	85	370	86	326	87	199	58	164	56	122	43	2945	66
ILLINOIS																										
Cairo	151	49	213	70	223	60	269	68	255	58	343	78	380	85	340	81	235	63	247	71	205	67	132	44	2993	67
Chicago	129	44	215	72	242	65	267	66	230	51	345	76	331	72	288	67	233	62	230	67	133	45	168	59	2811	63
Moline	131	44	204	69	221	60	248	62	214	47	237	52	350	76	238	56	186	50	197	57	121	41	162	56	2509	56
Peoria	115	39	206	68	193	52	221	55	193	43	266	59	319	69	228	53	226	60	229	67	144	48	157	55	2497	56
Springfield	129	43	228	76	221	60	219	55	184	41	257	57	314	69	309	73	261	70	232	67	186	62	170	58	2710	61
INDIANA																										
Evansville	115	38	209	69	221	60	266	67	276	62	352	79	381	85	355	84	257	69	225	65	187	61	133	45	2977	67
Fort Wayne	108	36	190	64	242	65	232	58	190	42	318	70	336	73	325	76	226	60	202	59	131	44	164	57	2664	60
Indianapolis	89	30	189	63	208	56	218	55	214	48	322	72	336	74	304	72	222	59	214	62	163	54	188	65	2667	60
Terre Haute	110	36	216	72	234	63	233	59	202	45	288	65	329	73	299	70	214	57	223	65	188	62	149	51	2685	60
IOWA																										
Burlington	153	51	233	78	257	69	258	65	204	45	274	61	343	75	255	60	213	57	212	62	---	---	159	55	---	---
Charles City	134	46	198	67	230	62	249	62	203	45	286	62	329	71	250	58	224	60	213	62	136	46	188	67	2640	59
Des Moines	169	57	247	83	286	77	250	62	199	44	290	64	368	80	247	57	270	72	264	77	174	59	208	73	2972	67
Dubuque	148	50	203	69	191	51	231	58	176	39	277	61	375	81	263	61	246	66	208	61	154	52	195	69	2667	60
Sioux City	123	42	209	70	245	66	279	70	272	60	288	63	361	78	286	67	277	74	252	73	151	51	212	74	2955	66
KANSAS																										
Concordia	171	57	194	65	208	56	280	70	235	53	310	69	366	80	315	74	260	70	262	76	178	59	196	67	2975	67
Dodge City	226	74	224	74	275	74	305	77	250	57	344	78	357	79	342	81	328	76	277	80	224	74	162	55	3268	73
Topeka	167	55	215	69	208	56	267	67	198	45	299	67	353	78	310	73	261	70	239	69	184	61	167	57	2868	64
Wichita	207	68	231	76	233	63	344	87	204	46	322	73	363	81	350	83	259	69	260	75	229	76	168	57	3170	71
KENTUCKY																										
Louisville	87	28	171	56	207	56	205	52	246	56	321	73	313	70	287	68	193	52	242	70	185	61	118	40	2575	58
LOUISIANA																										
New Orleans	160	49	189	60	165	44	283	73	316	75	282	67	259	60	272	67	162	44	288	81	233	73	157	49	2766	62
Shreveport	198	62	227	73	195	53	295	76	312	73	358	84	391	90	376	91	199	54	276	78	226	72	132	42	3185	72
MAINE																										
Eastport	165	58	149	51	189	51	216	53	201	44	218	47	274	58	242	56	209	56	126	37	87	30	127	46	2203	49
Portland	165	57	193	66	196	53	266	66	262	57	326	70	344	74	257	59	210	56	130	38	155	54	183	66	2687	60
MARYLAND																										
Baltimore	125	41	186	62	231	62	258	65	243	55	326	73	305	67	304	72	252	68	179	52	201	67	185	63	2795	63
MASSACHUSETTS																										
Boston	133	45	166	56	222	60	241	60	255	56	315	69	255	55	241	56	193	51	140	41	159	54	155	55	2475	55
Nantucket	147	49	189	63	193	52	242	60	249	56	314	69	285	62	294	69	226	60	172	50	145	49	185	64	2641	59
MICHIGAN																										
Alpena	101	35	160	55	213	57	227	56	214	46	281	60	352	7												

SUNSHINE, AMOUNT AND PERCENT

Table 13-Continued

YEAR 1943

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible
MISSOURI-Cont'd																										
St. Joseph	146	49	205	68	221	60	249	62	203	46	292	65	343	75	251	59	262	70	253	73	175	59	149	51	2749	62
St. Louis	159	53	244	81	224	60	230	58	177	40	293	66	333	74	290	69	235	63	228	66	200	66	140	48	2753	62
Springfield	173	56	230	76	206	56	246	62	197	45	296	67	362	81	342	81	221	60	236	67	228	74	106	35	2843	64
MONTANA																										
Billings	93	33	137	47	213	57	218	53	212	46	306	65	386	81	341	78	268	71	201	60	97	34	153	57	2625	59
Great Falls	131	48	208	72	260	70	260	63	268	57	260	54	380	79	355	80	282	75	205	61	166	60	172	66	2947	66
Havre	156	57	211	74	258	70	296	72	320	67	303	63	432	89	399	90	324	86	236	70	183	67	166	65	3284	73
Helena	143	51	167	58	203	55	191	47	208	45	266	56	376	79	332	75	280	74	164	49	97	35	151	57	2578	58
Kalispell	50	18	107	37	196	53	241	59	259	55	229	48	329	68	328	74	294	78	140	42	68	25	46	18	2287	51
Missoula	65	23	117	41	184	50	183	45	212	45	218	46	358	75	333	76	300	80	154	46	74	26	69	26	2267	51
NEBRASKA																										
Lincoln	178	60	201	65	225	61	271	69	231	51	336	74	405	88	327	76	277	74	245	71	171	58	178	62	3045	68
North Platte	186	62	209	70	247	67	262	66	231	51	302	67	384	84	336	79	304	81	272	79	170	57	189	66	3092	69
Omaha	156	52	214	72	241	65	259	65	252	56	302	67	386	84	290	68	266	71	259	75	132	45	182	63	2939	66
Valentine	169	58	198	67	266	72	301	75	283	62	321	70	398	86	363	84	321	86	291	85	151	52	187	67	3249	73
NEVADA																										
Ely	190	63	205	68	232	62	236	59	303	68	351	79	363	80	360	85	294	79	256	74	239	79	169	58	3198	72
Reno	202	67	200	67	251	68	280	70	371	83	346	77	402	88	418	98	349	94	225	65	219	73	167	57	3430	77
Winnemucca	149	50	177	59	209	56	236	59	327	73	313	69	404	88	410	96	349	93	189	55	220	74	178	62	3161	71
NEW HAMPSHIRE																										
Concord	118	40	152	51	171	46	198	49	219	48	311	68	296	64	224	52	185	49	108	32	128	44	158	56	2268	51
Mt. Washington	88	30	69	23	75	20	119	29	112	24	132	28	124	26	53	12	133	35	83	24	83	28	110	39	1181	26
NEW JERSEY																										
Atlantic City	128	42	208	69	234	63	282	71	229	52	335	75	286	63	317	75	225	60	171	49	214	71	166	57	2795	63
Trenton	99	33	159	53	165	45	211	53	220	49	304	68	260	57	278	65	224	60	151	44	172	58	150	52	2393	54
NEW MEXICO																										
Albuquerque	208	66	264	86	277	75	342	87	342	79	354	82	347	79	337	81	273	73	303	86	265	85	143	47	3455	78
Roswell	226	71	274	89	251	67	317	81	319	74	339	79	335	77	356	86	259	70	303	86	239	76	180	58	3398	76
NEW YORK																										
Albany	131	45	146	50	201	54	197	49	255	56	337	73	308	66	246	57	253	67	162	47	108	37	135	48	2479	56
Binghamton	59	20	99	33	169	45	110	27	140	31	261	57	331	50	188	44	157	42	77	22	50	17	62	22	1703	36
Buffalo	82	28	146	49	236	64	170	42	214	47	385	84	300	64	293	68	270	72	160	47	90	31	61	22	2407	54
Canton	102	36	115	39	215	58	179	44	228	49	306	66	321	68	216	50	194	52	129	38	83	29	94	34	2182	49
New York	136	46	199	67	224	60	290	73	260	58	343	76	320	70	330	77	237	63	182	53	209	71	187	65	2917	65
Oswego	63	22	89	30	204	55	159	40	205	45	310	68	321	69	241	56	251	67	139	41	79	27	58	21	2119	48
Rochester	71	24	123	42	233	63	170	42	187	41	344	75	294	63	244	57	266	71	152	45	100	34	109	39	2293	50
Syracuse	60	21	85	29	181	49	127	32	168	37	263	57	266	57	198	46	184	49	122	36	84	29	81	29	1819	41
NORTH CAROLINA																										
Asheville	174	56	196	64	196	53	241	61	287	66	306	70	258	58	292	70	259	70	233	67	234	76	150	50	2826	64
Charlotte	162	52	210	68	213	57	281	72	315	73	323	74	268	61	298	72	275	74	254	73	222	71	170	56	2991	67
Greensboro	165	53	198	65	201	54	259	65	322	74	368	84	289	65	327	78	271	73	273	78	248	80	152	50	3073	69
Raleigh	121	39	160	53	191	51	253	64	279	64	309	71	240	54	293	70	253	68	277	79	229	74	177	59	2782	63
Wilmington	176	56	216	70	209	56	295	75	326	75	341	79	283	64	317	76	264	71	289	82	239	76	207	67	3162	71
NORTH DAKOTA																										
Bismarck	140	50	186	64	237	64	303	74	251	54	290	61	415	87	320	73	287	76	215	64	99	35	141	53	2884	65
Devils Lake	134	49	178	62	229	62	316	77	212	45	269	56	394	82	303	68	270	71	254	76	102	36	181	69	2842	64
Fargo	173	62	190	66	229	62	302	74	236	51	223	47	370	77	255	58	206	55	248	73	111	39	160	60	2703	60
Williston	132	48	187	65	248	67	313	76	297	63	312	65	401	83	370	84	296	78	237	71	117	42	152	58	3062	68
OHIO																										
Cincinnati	95	31	181	60	229	62	215	54	222	50	331	74	301	67	308	73	266	55	207	60	170	57	164	56	2629	59
Cleveland	71	24	118	40	199	54	241	60	185	41	337	75	295	64	269	63	265	71	180	52	88	30	140	49	2388	54
Columbus	81	27	164	55	228	61	206	52	222	50	309	69	287	63	297	70	207	55	212	61	125	42	140	48	2478	56
Dayton	65	21	156	52	221	60	197	49	199	45	334	74	314	69	315	74	252	67	217	63	110	28	125	43	2505	55
Sandusky	65	22	170	57	233	63	224	56	189	42	331	73	294	64	291	68	234	68	179	52	89	30	132	46	2431	55
Toledo	65	22	148	50	226	61	227	57	175	39	346	76	320	69	299	70	243	65	162	47	71	24	102	36	2384	54
OKLAHOMA																										
Oklahoma City	205	65	253	83	234	63	280	71	186	43	332	77	365	83	371	89	244	66	245	70	239	77	185	61	3139	71
Tulsa	192	62	245	80	219	59	271	69	191	44	283	65	346	78	350	84	252	68	232	66	229	74	119	39	2929	66
OREGON																										
Baker	87	30	167	57	211	57	222	55	300	65	245	53	407	86	364	84	350	73	152	45	117	41	128	47	2750	62
Portland	124	44	169	58	131	35	238	58	247	53	233	49	334	70	272	62	285	96	105	31	124	44	131	49	2393	54
Roseburg	71	24	149	51	148	40	195	48	253	56	222	48	366	79	302	70	288	77	127	37	90	31	41	15	2253	51
PENNSYLVANIA																										
Erie	47	16	96	32	149	40	164	41	127	28	296	65	238	52	188	44	140	37	96	28	64	22	74	26	1679	38
Harrisburg	100	33	166	55	215	58	242	61	260	58	292	65	279	61	305	72	243	65	169	49	129	43	155	53	2555	57
Philadelphia	93	31	169	56	203	55	246	62	254	57	244	54	237	52	271	64	198	53	135	39	159	53	126	43	2335	52
Pittsburg	72	24	141	47	212	57	217	54	215	48	310	69	306	67	248	58	260	69	148	43	109	37	98	34	2336	52
Reading	109	36	172	57	223	60	252	63	257	58	313	70	297	65	318	75	238	64	160	46	157	52	162	56	2658	60
Scranton	84	28	126	42	200	54	167	42	204	45	274	61	274	60	308											

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SUNSHINE, AMOUNT AND PERCENT

YEAR 1943

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual		
	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	
TEXAS-Cont'd																											
Galveston	160	49	180	58	213	57	274	71	291	69	285	68	277	65	339	83	211	57	286	81	199	62	137	43	2852	64	
Fort Worth	199	63	215	70	181	49	275	70	232	54	284	66	323	74	355	86	236	64	275	78	239	76	159	51	2973	67	
Houston	156	48	176	56	184	49	256	66	273	65	266	63	298	69	301	73	139	38	262	74	191	60	148	47	2650	60	
Palestine	196	61	224	72	204	55	---	---	291	68	---	---	---	---	---	---	---	---	265	75	231	73	122	39	---	---	
Port Arthur	175	54	194	62	220	59	281	73	323	76	330	78	298	69	314	77	192	52	294	83	219	68	147	46	2987	67	
San Antonio	144	44	191	61	225	60	300	78	304	72	325	77	281	66	263	64	195	53	236	66	173	54	159	50	2796	63	
UTAH																											
Modena	201	66	224	74	254	68	278	70	327	74	364	82	349	78	337	80	304	81	239	69	261	86	151	51	3289	74	
Salt Lake City	141	47	176	59	256	69	290	72	326	73	345	76	370	81	365	86	336	90	228	66	188	63	153	53	3174	71	
VERMONT																											
Burlington	125	43	111	38	198	54	163	40	171	37	295	64	305	65	245	57	222	59	110	32	86	30	72	26	2103	47	
VIRGINIA																											
Cape Henry	180	58	196	64	203	55	244	62	281	64	319	72	245	55	336	80	232	62	237	68	234	77	180	60	2887	65	
Lynchburg	180	58	201	61	227	66	244	62	289	66	346	79	283	63	310	74	273	73	254	73	238	78	173	58	3018	68	
Norfolk	152	49	191	63	216	58	263	67	300	68	334	76	305	68	342	83	238	64	248	71	247	81	182	61	3018	68	
Richmond	167	54	202	67	212	57	233	59	283	64	303	68	260	58	337	80	248	67	235	68	230	76	178	60	2888	65	
Wash. Nat'l Airport	125	41	184	61	229	62	239	60	255	57	320	72	283	63	282	67	236	63	183	53	184	61	156	53	2676	60	
WASHINGTON																											
North Head	142	50	155	53	154	42	197	48	251	54	217	46	205	43	207	47	214	57	98	29	93	33	141	52	2074	46	
Seattle	74	27	132	46	163	44	214	52	239	51	262	55	277	57	245	55	266	70	127	38	101	36	110	42	2210	49	
Spokane	40	15	106	37	161	43	206	50	287	61	282	59	364	75	288	65	325	86	155	46	62	22	83	32	2359	53	
Tacoma	72	26	120	41	153	41	192	47	232	50	217	46	277	58	237	54	249	66	133	40	78	28	101	38	2061	46	
Tatoosh	108	39	133	46	168	45	208	51	283	60	274	57	195	40	221	50	232	62	197	59	133	48	158	60	2310	52	
Walla Walla	50	18	81	28	183	49	251	62	307	66	298	63	419	88	368	84	339	90	143	42	43	15	44	16	2526	57	
Yakima	79	28	125	43	214	58	267	65	324	69	323	68	416	87	371	84	324	86	143	43	48	17	93	35	2727	61	
WEST VIRGINIA																											
Elkins	103	34	101	33	205	55	199	50	224	50	276	62	223	49	236	56	227	61	156	45	143	47	109	37	2202	49	
Parkersburg	114	38	122	40	219	59	207	52	212	48	288	65	239	53	289	68	229	61	187	54	120	40	133	45	2359	53	
WISCONSIN																											
Green Bay	130	45	219	75	275	74	237	59	175	38	273	59	316	67	272	63	176	47	169	50	127	44	193	70	2562	57	
La Crosse	126	44	205	70	226	61	254	63	224	49	295	64	348	74	262	60	209	56	211	62	108	37	198	71	2666	68	
Madison	137	47	204	69	230	62	270	67	196	43	302	66	345	74	279	65	228	61	223	65	96	33	147	52	2657	60	
Milwaukee	105	36	179	61	193	52	226	56	162	36	238	52	325	70	236	55	259	69	198	58	107	36	164	58	2393	54	
WYOMING																											
Cheyenne	203	68	236	79	239	65	195	49	226	50	294	65	366	80	293	69	303	81	240	70	199	67	160	56	2954	60	
Lander	195	67	240	81	286	77	299	74	311	68	347	75	394	85	356	83	318	85	242	71	194	66	206	73	3388	76	
Sheridan	184	64	215	74	297	80	256	63	230	50	280	60	369	78	349	80	339	90	293	86	233	81	186	68	3231	72	
PACIFIC AREA																											
Honolulu	214	63	252	79	259	69	305	80	273	67	322	80	294	71	294	74	314	85	279	77	276	83	255	75	3337	75	
PUERTO RICO																											
San Juan	245	71	251	77	300	80	268	71	239	59	248	63	284	70	255	65	260	71	222	61	278	82	239	70	3089	70	
ALASKA																											
Anchorage	69	34	121	48	235	64	251	57	370	68	344	60	230	40	182	37	68	18	74	24	81	37	30	17	2055	50	
Fairbanks	54	34	111	47	230	63	344	75	380	65	473	73	373	60	173	34	119	30	113	38	90	48	36	30	2496	55	
Juneau	85	38	40	15	176	48	140	33	231	44	212	39	70	13	113	24	45	12	96	30	21	9	5	2	1234	27	
Ketchikan	99	41	90	33	156	43	128	30	198	39	169	32	86	17	138	30	128	34	73	23	30	12	18	8	1313	29	
Nome	111	67	99	42	212	58	274	60	297	51	373	59	233	38	122	24	193	49	119	39	70	36	43	33	2146	47	

SUNSHINE, AMOUNT AND PERCENT

Table 13

YEAR 1944

	January		February		March		April		May		June		July		August		September		October		November		December		Annual		
	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	
ALABAMA																											
Birmingham	139	44	119	37	221	60	205	52	267	62	331	77	272	62	177	43	205	55	285	81	169	54	115	37	2505	56	
Mobile	162	50	142	44	203	54	206	53	309	73	321	76	284	66	236	58	241	65	301	85	181	57	174	55	2760	61	
Montgomery	185	56	160	52	236	64	266	68	376	87	361	85	317	73	258	63	232	62	305	86	207	65	180	58	3083	69	
ARIZONA																											
Phoenix	271	85	217	68	307	83	340	87	398	93	423	99	398	91	374	90	309	83	296	84	221	70	225	73	3779	85	
Yuma	284	90	241	75	335	90	371	95	420	98	429	100	427	98	400	97	355	96	319	91	248	79	255	82	4084	92	
ARKANSAS																											
Fort Smith	181	58	126	40	199	54	206	52	238	55	299	69	289	65	284	68	271	73	281	80	130	42	121	40	2625	59	
Little Rock	190	64	172	54	238	64	236	60	289	66	347	80	341	77	254	61	261	70	300	86	136	44	137	45	2901	65	
CALIFORNIA																											
Eureka	106	36	143	46	239	64	187	47	283	63	207	46	228	50	213	50	189	51	164	48	133	45	119	41	2211	49	
Fresno	135	44	157	50	302	81	278	70	381	87	403	91	443	99	419	100	368	99	302	87	138	45	106	35	3432	77	
Los Angeles	217	69	202	63	286	77	308	79	280	65	297	69	314	71	371	89	266	72	269	77	221	71	230	73	3261	73	
Sacramento	126	41	191	61	304	82	255	64	363	82	365	82	436	96	415	98	355	95	287	83	130	43	94	32	3321	74	
San Diego	215	68	228	71	300	81	294	75	242	56	243	57	280	64	308	74	187	50	199	57	201	64	222	71	2919	65	
San Francisco	144	47	200	64	325	88	282	71	322	73	291	66	245	55	298	69	303	81	214	62	171	56	142	48	2930	66	
COLORADO																											
Denver	223	74	186	60	228	61	226	57	263	59	307	68	303	67	369	87	315	84	252	73	187	62	234	81	3093	69	
Grand Junction	164	54	201	64	256	69	226	57	249	56	362	81	376	83	354	84	331	89	235	68	162	54	174	59	3090	69	
Pueblo	248	81	209	67	254	68	224	57	331	75	374	84	355	79	347	82	321	86	253	73	179	59	211	71	3306	74	
CONNECTICUT																											
Hartford	165	56	169	55	192	52	183	46	283	63	274	60	315	68	306	71	196	52	230	67	115	39	147	52	2575	58	
New Haven	189	63	219	71	230	62	213	53	329	73	312	69	376	82	334	78	226	61	238	69	136	47	158	55	2960	66	
FLORIDA																											
Apalachicola	152	47	203	63	206	55	192	50	263	62	318	75	291	68	274	67	247	67	288	81	203	64	184	58	2821	63	
Jacksonville	190	59	199	62	228	61	237	61	287	68	256	61	191	44	197	48	219	59	255	72	197	61	207	65	2663	60	
Key West	217	65	266	81	291	78	272	71	263	63	315	77	319	76	260	65	239	65	224	62	269	82	238	72	3173	71	
Miami	171	51	257	79	227	61	229	60	195	47	251	61	213	51	230	57	221	60	188	52	275	84	244	75	2701	60	
Pensacola	184	57	191	59	239	64	237	61	357	84	339	80	301	70	275	67	279	75	324	91	203	63	210	66	3139	70	
Tampa	155	47	203	62	197	53	213	55	275	66	220	53	164	39	181	45	319	86	281	79	286	89	273	85	2767	62	
GEORGIA																											
Atlanta	166	53	150	47	227	61	273	70	328	76	328	76	269	61	221	53	185	50	260	74	165	53	132	43	2704	65	
Augusta	195	61	167	52	244	66	302	77	398	92	382	89	367	84	305	74	264	71	303	86	224	71	194	62	3345	75	
Macon	187	59	149	46	230	62	269	69	368	86	356	83	323	74	254	61	224	60	291	83	192	61	156	50	2999	67	
Savannah	205	64	173	54	219	59	238	61	339	79	307	72	251	58	211	51	217	59	241	68	175	55	188	60	2764	62	
IDAHO																											
Boise	191	66	125	41	257	70	227	56	327	71	279	60	391	84	413	95	285	76	249	73	50	17	101	36	2895	65	
Pocatello	159	55	133	43	188	51	174	43	282	62	297	65	393	84	410	95	308	82	273	80	66	23	113	40	2796	63	
ILLINOIS																											
Cairo	177	57	164	54	226	61	245	62	329	75	387	88	367	82	322	79	265	71	289	83	138	45	117	39	3026	68	
Chicago	147	50	150	49	153	41	196	49	253	56	318	70	373	81	301	70	239	64	243	71	86	29	116	41	2575	56	
Moline	160	54	136	44	137	37	174	44	232	52	273	60	336	73	272	64	172	46	242	70	55	19	97	34	2286	51	
Peoria	164	55	134	43	146	39	170	43	261	58	338	75	326	71	236	55	265	71	248	72	46	15	117	41	2451	53	
Springfield	188	62	193	62	161	43	170	43	250	56	309	69	367	81	295	69	247	66	255	74	59	20	110	38	2604	58	
INDIANA																											
Evansville	172	56	142	45	187	50	221	56	320	73	364	82	357	79	334	79	287	77	274	79	111	37	110	37	2879	65	
Ft. Wayne	135	45	138	45	122	33	148	37	246	55	316	70	373	81	285	67	249	67	226	66	83	28	101	35	2422	54	
Indianapolis	169	56	151	49	173	47	212	53	288	64	349	78	374	82	306	72	260	69	250	72	65	22	96	33	2693	60	
Terre Haute	180	59	143	46	180	49	206	52	284	64	342	77	379	84	294	69	261	70	248	72	87	29	113	38	2717	61	
IOWA																											
Burlington	167	56	144	46	129	35	159	40	216	48	287	63	347	76	325	76	258	69	265	77	61	21	105	37	2463	55	
Charles City	175	60	179	58	161	43	193	48	217	48	305	67	359	77	309	72	218	58	235	69	53	18	123	44	2527	56	
Des Moines	213	72	188	61	164	44	161	40	282	62	286	63	351	76	257	60	250	67	264	77	97	33	150	53	2663	60	
Dubuque	183	62	157	51	173	47	190	47	246	54	289	63	353	76	303	71	215	58	224	65	82	28	108	38	2523	56	
Sioux City	184	62	196	64	190	51	187	47	310	69	323	71	376	82	320	75	268	72	265	77	62	21	142	50	2823	63	
KANSAS																											
Concordia	179	59	157	50	160	43	133	33	265	59	284	63	305	67	271	64	206	55	246	71	133	44	153	53	2492	56	
Dodge City	194	64	150	48	187	50	199	50	313	71	350	79	359	80	340	81	266	71	233	67	179	59	188	64	2958	66	
Topeka	194	64	178	57	189	51	187	47	321	73	335	75	335	74	276	65	224	60	239	69	136	45	123	42	2737	61	
Wichita	189	62	183	58	153	41	182	46	260	59	302	68	334	74	264	63	211	57	252	72	117	38	149	50	2596	58	
KENTUCKY																											
Louisville	185	61	145	46	185	50	214	54	356	81	382	86	371	82	280	66	263	70	232	67	96	32	105	35	2814	63	
LOUISIANA																											
New Orleans	165	51	161	50	203	55	221	57	312	74	296	70	287	67	284	69	259	70	323	92	164	51	183	58	2862	64	
Shreveport	147	46	115	36	211	57	274	70	271	63	369	86	387	89	386	79	301	81	327	92	175	56	146	47	3045	68	
MAINE																											
Eastport	182	64	187	62	220	60	248	61	335	73	224	48	289	61	305	70	200	53	125	37	94	33	151	55	2560	57	
Portland	200	69	222	73	246	66	246	61	340	74	292	63	336	72	371	86	228	61	206	60	126	43	210	76	3203	68	
MARYLAND																											
Baltimore	185	61	159	51	222	60	198	50	313	70	307	69	347	77	316	75	205	55	229	66	158	53	139	47	2778	62	
MASSACHUSETTS																											
Boston	161	54	190	62	204	55	211	53	310	69	217	48	293	64	310	72	187	50	209	61	130	44	177	62	2599	58	
Nantucket	193	65	218	70	256	69	254	63	380	85	282	62	360	79	314	74	260	69	201	58	153	51	161	56			

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YEAR 1944

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible
MISSOURI-Cont'd																										
Kansas City	195	64	199	64	209	56	192	48	283	64	311	70	318	70	239	56	224	60	267	77	111	37	110	37	2658	60
St. Joseph	163	54	148	48	157	42	153	38	275	62	295	66	332	73	254	60	218	58	248	72	129	43	138	48	2510	56
St. Louis	202	67	169	54	183	49	195	49	279	63	375	84	354	78	277	65	250	67	279	81	91	30	102	35	2756	62
Springfield	198	64	165	52	199	54	186	47	289	66	359	82	398	89	303	72	255	68	307	88	130	42	117	39	2906	65
MONTANA																										
Billings	134	47	114	38	59	16	229	56	330	71	257	55	390	82	379	87	295	78	288	85	164	58	191	71	2830	63
Great Falls	145	52	153	51	227	61	302	74	360	76	216	45	402	83	293	66	234	62	257	76	175	63	167	64	2931	65
Havre	181	67	180	61	232	63	316	77	339	71	270	56	399	82	313	70	266	70	264	79	105	38	147	57	3012	67
Helena	155	55	169	57	162	44	174	43	201	43	189	40	379	79	305	69	241	64	232	69	98	35	117	44	2422	54
Kalispell	86	31	79	26	140	38	209	51	223	47	200	42	331	69	286	65	239	63	262	78	31	11	37	14	2123	47
Missoula	153	55	111	37	138	37	179	44	221	47	199	42	373	78	299	68	273	73	251	75	48	17	72	27	2317	52
NEBRASKA																										
Lincoln	190	64	180	58	184	50	138	35	308	69	328	73	376	82	301	71	238	64	263	76	83	28	149	52	2738	61
North Platte	183	61	154	50	186	50	190	48	317	71	278	62	328	72	313	73	254	68	249	72	105	35	153	53	2710	61
Omaha	207	69	166	54	162	44	147	37	199	44	231	51	332	72	287	67	245	65	261	76	56	19	136	47	2429	54
Valentine	185	63	209	68	209	56	179	44	327	72	307	67	365	79	316	73	287	77	273	80	132	45	178	63	2967	66
NEVADA																										
Ely	208	69	190	61	258	69	156	39	305	69	361	81	426	94	413	97	323	86	258	75	124	41	232	79	3254	73
Reno	172	57	190	61	324	87	264	66	366	82	343	76	416	91	422	99	339	91	289	84	171	57	214	74	3510	79
Winnemucca	169	57	133	43	267	72	217	54	340	76	285	63	397	87	413	97	307	82	273	79	117	39	171	59	3089	69
NEW HAMPSHIRE																										
Concord	157	54	171	56	210	57	223	55	288	63	257	56	284	61	280	65	163	43	174	51	98	33	114	41	2419	54
Mt. Washington	112	38	101	34	143	38	160	39	246	53	132	28	167	35	167	38	99	26	121	35	139	47	116	41	1703	38
NEW JERSEY																										
Atlantic City	178	59	167	53	215	58	201	51	330	74	306	69	362	80	326	77	207	56	246	71	171	57	172	59	2881	65
Trenton	164	54	142	46	221	59	231	58	329	74	274	61	358	79	301	71	195	52	221	64	149	50	141	49	2726	61
NEW MEXICO																										
Albuquerque	201	64	207	65	251	67	247	63	318	73	358	83	322	73	305	73	278	75	246	70	190	61	200	66	3123	70
Roswell	213	67	171	53	294	79	332	85	355	83	382	89	348	80	280	68	215	58	227	64	214	68	175	57	3206	72
NEW YORK																										
Albany	144	49	166	54	195	53	208	52	301	66	246	53	318	68	296	69	174	46	193	56	83	29	108	38	2432	54
Binghamton	54	18	70	23	117	32	135	34	220	49	219	48	228	49	211	49	155	41	136	40	69	23	85	30	1699	38
Buffalo	80	27	95	31	167	45	168	42	252	55	259	56	323	69	284	66	193	52	202	59	101	35	122	43	2246	50
Canton	106	37	146	48	211	57	224	55	288	62	276	59	314	67	321	74	181	48	166	49	61	21	115	42	2409	54
New York	182	61	158	51	171	46	197	49	274	61	264	58	361	79	308	72	187	50	240	70	149	50	146	51	2637	59
Oswego	89	30	115	38	207	56	227	56	308	68	288	63	359	77	349	81	204	54	177	52	61	21	58	21	2442	55
Rochester	109	37	130	42	189	51	178	44	325	72	307	67	368	79	304	70	183	49	190	55	78	27	107	38	2468	55
Syracuse	97	33	127	42	182	49	191	47	295	65	272	59	361	71	325	75	200	53	175	51	61	21	70	25	2356	53
NORTH CAROLINA																										
Asheville	138	44	134	42	231	62	254	65	298	68	317	72	302	68	266	64	194	52	228	65	155	50	137	45	2654	60
Charlotte	188	60	141	44	216	58	253	64	343	79	326	75	267	60	262	63	177	47	257	74	179	58	147	48	2756	62
Greensboro	156	50	132	42	196	53	201	51	363	83	347	79	291	65	267	64	181	49	267	76	145	47	155	51	2701	62
Raleigh	204	66	182	58	235	63	300	76	388	89	364	83	349	79	307	73	216	58	270	77	156	51	174	57	3145	71
Wilmington	181	57	137	43	214	58	273	70	372	86	334	77	276	63	271	65	231	62	255	73	208	67	201	65	2953	66
NORTH DAKOTA																										
Bismarck	170	61	183	61	181	49	251	62	309	66	283	60	399	83	294	67	227	60	279	83	55	20	133	50	2764	62
Devils Lake	173	63	184	62	185	50	240	58	232	49	214	45	319	66	198	45	117	31	248	74	40	14	103	39	2253	50
Fargo	171	61	184	61	195	53	247	60	241	52	317	67	367	77	284	65	170	45	240	71	33	12	129	49	2578	58
Williston	207	75	176	59	190	51	259	63	318	68	295	62	415	86	306	69	264	70	291	87	90	32	114	44	2925	65
OHIO																										
Cincinnati	166	55	138	44	186	50	252	63	333	75	370	83	345	76	281	66	216	58	195	56	101	34	101	34	2684	60
Cleveland	125	42	124	40	129	35	162	41	277	62	311	69	361	79	296	69	231	62	213	62	77	26	62	22	2368	53
Columbus	111	37	140	45	161	43	210	53	295	66	329	73	357	78	324	76	285	76	215	62	87	29	95	33	2609	58
Dayton	136	45	111	36	90	24	137	34	227	51	194	45	317	70	266	63	244	65	234	68	75	25	95	33	2226	50
Sandusky	113	38	116	39	159	43	168	42	266	59	313	69	345	75	261	61	213	62	230	67	68	23	77	27	2329	53
Toledo	109	37	130	42	149	40	174	43	232	51	282	62	327	71	288	67	218	58	206	60	27	9	80	28	2222	50
OKLAHOMA																										
Oklahoma City	206	66	150	47	211	57	271	69	290	67	366	84	356	81	344	82	284	76	282	81	169	54	151	49	3080	69
Tulsa	163	52	121	38	165	44	173	44	166	38	284	65	362	81	304	73	250	67	251	72	124	40	118	39	2481	56
OREGON																										
Baker	193	67	131	43	197	53	213	52	272	59	243	52	391	83	357	82	267	71	255	75	82	29	125	46	2726	61
Portland	137	48	95	32	174	47	163	40	288	62	219	46	334	70	232	53	226	60	174	51	117	41	128	47	2286	51
Roseburg	103	35	102	33	214	58	150	37	258	57	240	52	372	80	310	72	280	75	151	44	51	18	56	20	2287	51
PENNSYLVANIA																										
Erie	76	26	91	29	171	46	169	42	289	64	291	64	342	74	294	68	218	56	205	60	67	23	54	19	2267	51
Harrisburg	145	48	131	42	200	54	186	47	328	73	310	69	387	85	326	77	231	62	215	62	109	36	122	42	2690	60
Philadelphia	116	38	110	35	168	45	193	49	289	65	263	59	305	67	273	64	159	42	189	55	92	31	133	46	2290	51
Pittsburg	139	46	103	33	174	47	189	48	325	73	303	67	297	65	241	57	190	51	195	56	82	28	63	22	2301	52
Reading	167	56	144	46	205	55	206	52	326	73	300	67	373	82	323	76	199	53	230	67	170	57				

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SUNSHINE, AMOUNT AND PERCENT

YEAR 1944

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible
TEXAS-Cont'd																										
El Paso	245	77	249	77	325	87	354	91	363	85	375	88	312	72	296	72	220	59	264	75	226	72	218	70	3447	77
Ft. Worth	170	54	124	39	196	53	271	69	284	66	346	81	333	76	309	75	284	77	281	80	180	57	174	56	2952	66
Galveston	152	47	134	41	192	52	268	69	306	73	371	89	388	91	310	76	296	80	314	88	191	60	140	44	3062	69
Houston	132	41	109	34	156	42	223	58	221	52	316	75	349	81	287	70	249	67	301	85	148	46	129	41	2620	59
Palestine	134	42	93	30	179	48	237	61	231	54	337	79	308	71	280	68	278	75	293	83	148	47	138	44	2656	60
Port Arthur	149	46	123	38	214	58	235	61	231	55	350	83	349	81	258	63	274	74	311	88	176	55	143	45	2813	63
San Antonio	150	46	91	28	146	39	211	54	173	41	118	28	363	85	301	74	288	78	312	88	140	44	135	43	2428	55
UTAH																										
Modena	175	57	165	53	268	72	201	51	307	69	357	81	418	93	403	96	335	90	254	73	161	53	214	72	3258	72
Salt Lake City	126	42	161	52	203	55	203	51	312	70	298	66	400	87	389	91	306	82	252	73	74	25	195	68	2919	65
VERMONT																										
Burlington	103	35	127	42	205	55	195	48	287	63	244	53	289	62	308	71	161	43	139	41	66	23	84	30	2208	49
VIRGINIA																										
Cape Henry	163	53	173	55	236	64	284	72	362	82	352	80	326	73	299	71	206	55	260	75	186	61	191	64	3038	68
Lynchburg	212	69	160	51	222	60	246	62	334	76	299	68	299	67	290	69	197	53	228	65	123	40	146	49	2756	62
Norfolk	167	54	168	53	220	59	265	67	372	85	343	78	357	80	327	78	217	58	249	72	173	57	167	56	3025	68
Richmond	196	64	145	46	218	59	247	62	331	75	302	68	339	75	295	70	206	55	241	70	161	53	148	50	2829	63
Washington Nat'l Airport	169	56	144	46	208	56	186	47	288	65	279	63	309	68	298	70	177	47	221	64	133	44	105	36	2517	56
WASHINGTON																										
North Head	113	40	133	44	189	51	181	44	246	53	202	43	194	41	162	37	162	43	105	31	58	20	123	46	1868	42
Seattle	115	42	114	38	168	45	156	38	218	46	216	45	290	60	188	43	204	54	135	40	80	29	104	40	1988	44
Spokane	144	52	129	43	211	57	197	48	320	68	306	64	403	83	341	77	259	69	219	65	34	12	81	31	2644	59
Tacoma	105	38	101	34	182	49	175	43	262	56	226	48	293	61	209	48	210	56	131	39	76	27	86	32	2056	46
Tatoosh	129	47	170	57	207	56	223	54	243	52	212	44	154	32	69	16	165	44	149	44	43	15	117	44	1881	42
Walla Walla	77	27	84	28	202	54	229	56	303	65	318	68	400	84	387	88	279	74	239	71	80	28	34	13	2632	59
Yakima	97	35	93	31	247	67	225	55	321	69	334	70	406	85	365	83	267	71	205	61	83	30	44	17	2687	60
WEST VIRGINIA																										
Elkins	138	46	125	40	161	43	162	41	285	64	237	53	307	68	214	51	213	57	196	57	80	26	80	27	2198	49
Parkersburg	131	43	119	38	130	35	161	41	286	64	298	67	323	71	244	58	144	39	204	59	76	25	72	24	2188	49
WISCONSIN																										
Green Bay	135	47	141	47	154	42	216	53	222	48	273	59	318	68	298	69	189	50	226	67	71	25	116	42	2359	53
LaCrosse	171	59	195	64	203	55	245	61	234	51	295	64	340	73	312	72	204	54	223	65	58	20	109	39	2589	58
Madison	139	48	120	39	132	36	163	41	212	47	259	56	331	71	279	65	174	46	215	63	32	11	93	33	2149	48
Milwaukee	136	47	112	37	105	28	185	46	195	43	277	60	331	71	273	63	170	45	178	52	76	26	109	39	2147	48
WYOMING																										
Cheyenne	178	60	184	60	168	45	195	49	292	65	305	67	314	68	305	71	289	77	244	71	190	64	211	73	2875	64
Lander	227	77	246	80	270	73	269	67	347	76	329	72	388	83	416	96	321	86	291	85	183	63	204	73	3491	78
Sheridan	203	71	198	65	235	63	257	63	316	69	248	53	349	74	351	81	245	65	290	85	138	48	167	61	2997	67
PACIFIC AREA																										
Honolulu	262	77	225	67	211	57	285	75	318	78	243	61	306	74	312	78	315	86	270	75	267	80	202	60	3216	72
PUERTO RICO																										
San Juan	248	72	271	81	298	80	243	65	231	57	302	76	263	65	238	60	154	42	265	73	209	62	188	55	2910	66
ALASKA																										
Anchorage	63	31	98	37	213	58	294	67	178	33	304	53	232	41	196	40	130	33	79	25	48	22	38	22	1873	41
Fairbanks	65	40	88	36	140	38	349	76	270	46	410	64	280	45	146	28	114	29	94	31	101	53	31	26	2088	43
Juneau	11	5	102	38	103	28	198	46	119	23	241	44	174	32	109	23	97	25	18	6	48	20	43	21	1263	28
Ketchikan	19	8	101	36	116	32	132	31	148	29	199	38	169	32	123	27	168	44	76	23	49	20	77	34	1377	31
Nome	75	45	73	29	192	53	361	79	256	44	254	40	237	39	187	37	91	23	132	44	90	47	43	34	1991	43

SUNSHINE, AMOUNT AND PERCENT

Station		January		February		March		April		May		June		July		August		September		October		November		December		Annual	
		Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible
ALABAMA																											
Birmingham	142	45	102	33	187	50	233	59	252	58	243	56	200	45	282	68	221	59	201	57	176	56	99	32	2338	52	
Mobile	179	56	133	43	236	63	247	64	321	75	305	72	183	42	269	65	246	67	220	62	182	57	148	47	2669	59	
Montgomery	198	60	139	45	259	70	284	73	333	78	334	78	282	65	337	82	281	76	240	68	202	64	125	40	3014	67	
ARIZONA																											
Phoenix	217	68	270	87	282	76	366	94	415	97	416	97	336	77	336	81	342	92	255	73	266	85	196	63	3697	83	
Yuma	248	78	273	89	312	84	369	94	420	98	428	100	390	89	327	79	353	95	307	87	296	94	241	78	3964	89	
ARKANSAS																											
Fort Smith	177	56	142	46	209	56	230	58	264	61	233	54	339	77	317	76	240	65	201	57	196	63	143	47	2691	61	
Little Rock	170	54	96	31	174	47	215	55	259	60	262	60	273	62	291	70	233	63	198	56	160	52	133	44	2464	55	
CALIFORNIA																											
Eureka	150	50	172	58	169	46	257	64	193	43	355	79	305	67	141	33	250	67	107	31	97	33	86	30	2282	51	
Fresno	96	31	191	63	211	57	367	93	344	78	418	95	426	95	388	92	340	91	248	71	184	60	112	37	3325	75	
Los Angeles	244	77	202	66	261	70	284	73	306	71	216	50	345	78	340	82	281	76	212	61	256	82	185	60	3132	70	
Red Bluff	152	50	195	65	195	53	356	89	250	56	374	83	434	95	402	95	339	91	238	69	127	42	114	39	3176	69	
Sacramento	124	41	185	61	194	52	348	88	292	66	369	83	430	95	393	93	344	92	262	76	146	49	55	19	3142	67	
San Diego	222	70	187	61	239	64	230	59	278	65	169	39	252	58	250	60	229	62	180	51	235	75	202	65	2673	61	
San Francisco	176	58	215	71	233	63	370	93	284	64	357	80	261	58	270	64	274	73	195	56	162	53	125	42	2922	66	
COLORADO																											
Denver	174	58	145	48	266	72	188	47	262	59	236	53	284	62	232	55	215	58	242	70	211	71	161	55	2616	59	
Grand Junction	187	62	176	59	230	62	245	62	274	62	276	62	290	64	210	50	301	81	265	76	218	72	140	48	2812	63	
Pueblo	218	71	187	62	302	81	277	70	287	65	324	73	320	71	298	71	270	72	273	79	254	84	205	69	3215	72	
CONNECTICUT																											
Hartford	162	55	165	56	223	60	238	59	226	50	258	57	272	59	267	62	195	52	179	52	101						

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SUNSHINE, AMOUNT AND PERCENT

YEAR 1945

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible
MISSOURI																										
Columbia	112	37	113	38	255	69	177	45	164	37	136	30	283	63	332	78	206	55	215	62	167	55	123	42	2283	51
Kansas City	112	37	104	34	238	64	166	42	170	38	239	54	309	68	318	75	212	57	235	68	229	76	121	41	2453	55
St. Joseph	110	37	125	42	246	66	219	55	261	59	263	59	360	79	322	76	216	58	224	65	207	69	121	42	2674	59
St. Louis	134	44	127	42	226	61	215	54	231	52	221	49	361	80	301	71	188	50	235	68	166	55	123	42	2528	57
Springfield	124	40	117	38	199	54	147	37	210	48	147	33	364	82	343	82	220	59	222	64	193	63	106	35	2392	53
MONTANA																										
Billings	199	70	180	62	212	57	247	61	299	64	322	68	381	80	334	77	226	60	226	67	85	30	60	22	2771	60
Great Falls	117	43	165	57	218	59	239	58	277	59	219	46	383	79	351	79	205	64	203	60	89	32	96	37	2562	57
Havre	128	47	194	68	257	69	268	65	328	69	263	54	395	81	359	81	212	56	193	58	85	31	113	44	2795	62
Helena	86	31	123	43	164	44	191	47	239	51	205	43	406	85	319	73	225	60	214	63	93	33	68	26	2333	52
Kalispell	49	18	101	35	101	27	129	32	217	46	184	38	404	84	340	77	174	46	190	57	26	9	32	12	1947	44
Missoula	81	29	132	46	106	29	134	33	241	51	160	34	395	83	359	82	223	59	222	66	77	28	57	21	2187	49
NEBRASKA																										
Lincoln	139	47	131	44	280	76	208	52	242	54	249	55	338	74	314	74	238	64	233	68	211	71	140	49	2723	61
North Platte	145	48	103	34	281	76	219	55	298	66	271	60	356	78	316	74	274	73	272	79	184	62	138	48	2857	64
Omaha	108	36	104	35	242	65	189	47	154	34	234	52	349	76	308	72	226	60	230	67	168	57	97	34	2409	54
Valentine	189	65	183	62	287	78	241	60	281	62	259	57	374	80	324	75	257	68	287	84	190	65	160	57	3032	68
NEVADA																										
Ely	202	67	179	60	214	58	203	51	205	46	304	68	302	67	278	66	297	80	197	57	173	57	191	65	2745	62
Reno	204	68	206	69	274	74	333	84	277	62	343	76	411	90	348	82	347	93	236	68	151	50	91	31	3221	72
Winnemucca	146	49	136	45	204	55	264	66	250	56	317	70	401	87	356	83	314	84	217	63	113	38	113	39	2831	63
NEW HAMPSHIRE																										
Concord	150	51	142	48	187	51	212	53	145	32	211	46	226	49	236	55	152	41	112	33	110	38	121	43	2004	45
Mt. Washington	103	35	137	46	165	44	176	43	60	13	99	21	114	24	158	36	145	38	101	29	80	27	82	29	1420	32
NEW JERSEY																										
Atlantic City	177	58	171	57	252	68	255	64	303	68	286	64	256	56	275	65	196	53	211	61	151	50	122	42	2655	60
Trenton	166	55	165	55	232	63	242	61	261	59	282	63	209	46	256	60	172	46	196	57	155	52	140	48	2476	56
NEW MEXICO																										
Albuquerque	199	64	199	65	249	67	312	79	371	86	382	88	334	76	323	77	310	83	263	75	264	85	220	72	3426	76
Roswell	230	72	233	76	291	78	296	76	372	87	377	88	305	70	309	75	278	75	222	63	286	91	244	79	3443	77
NEW YORK																										
Albany	142	49	133	45	210	57	226	56	196	43	238	52	218	47	241	56	177	47	144	42	84	29	129	46	2138	47
Binghampton	194	66	201	68	244	66	168	42	147	33	187	41	146	32	129	30	124	33	166	48	83	28	59	21	1848	41
Buffalo	152	52	117	40	202	55	186	46	180	40	238	52	292	63	315	73	219	58	184	54	106	36	94	33	2285	50
Canton	150	53	108	37	197	53	171	42	172	37	269	58	289	61	258	59	185	49	136	40	94	33	124	45	2153	48
New York	185	62	174	58	228	62	250	62	253	56	254	56	187	41	253	59	193	52	185	54	140	50	135	47	2446	55
Oswego	69	24	71	24	220	60	206	51	202	44	262	57	301	65	282	65	182	48	141	41	54	18	96	34	2086	47
Rochester	150	51	129	44	242	65	227	56	223	49	270	59	302	65	302	70	202	54	172	50	73	25	136	48	2428	53
Syracuse	113	39	102	35	198	53	185	46	190	42	249	54	294	63	287	67	205	55	146	43	57	19	109	39	2135	47
NORTH CAROLINA																										
Asheville	164	53	170	56	245	66	263	67	283	65	262	60	227	51	250	60	239	64	255	73	180	58	108	36	2646	59
Charlotte	154	49	115	38	212	57	200	51	297	68	276	64	168	38	235	56	165	44	227	65	200	65	133	44	2382	54
Greensboro	150	48	138	45	203	55	231	59	245	56	311	71	283	64	295	71	214	57	260	74	168	55	119	39	2617	59
Hatteras	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Raleigh	163	52	165	54	287	77	305	78	339	78	280	64	250	56	272	65	210	56	247	71	170	55	90	30	2778	61
Wilmington	172	55	183	60	268	72	247	63	320	74	297	69	234	53	247	60	260	70	251	71	222	71	151	49	2852	64
NORTH DAKOTA																										
Bismarck	94	34	160	56	198	53	212	52	267	57	240	51	359	75	324	74	207	55	193	57	92	33	116	44	2462	53
Devils Lake	87	32	147	51	179	48	152	37	214	46	227	47	304	63	308	70	164	43	155	49	77	28	90	34	2114	47
Fargo	88	31	165	57	247	67	214	52	289	62	252	53	334	70	284	64	184	49	175	52	68	24	90	34	2390	53
Williston	120	43	187	65	230	62	240	58	281	60	233	49	393	81	321	73	216	57	233	69	88	32	60	23	2602	56
OHIO																										
Cincinnati	100	33	129	43	212	57	229	58	259	58	246	55	294	65	275	65	231	62	214	62	113	37	78	27	2380	53
Cleveland	79	27	76	25	217	58	195	49	227	50	239	53	319	70	311	73	190	51	179	52	86	29	78	27	2196	49
Columbus	91	30	124	41	210	57	226	57	267	60	234	52	318	70	285	67	224	60	204	59	95	32	88	30	2366	53
Dayton	96	32	98	33	189	51	199	50	223	50	225	50	305	67	285	67	238	63	218	63	102	34	93	32	2272	51
Sandusky	119	40	95	32	242	65	204	51	204	45	233	51	312	68	296	69	181	48	191	56	78	26	75	26	2230	49
Toledo	92	31	54	18	227	61	216	54	231	51	232	51	312	68	291	68	181	48	182	53	61	21	95	33	2174	49
OKLAHOMA																										
Oklahoma City	143	46	106	35	188	50	157	40	273	63	230	53	296	67	313	75	216	58	174	50	211	68	176	58	2483	56
Tulsa	119	38	103	34	193	52	136	34	251	57	162	37	285	64	271	65	201	54	202	58	218	71	146	48	2287	51
OREGON																										
Baker	57	20	104	36	118	32	200	49	227	49	201	64	400	85	332	76	251	67	233	68	108	38	68	25	2399	51
Portland	108	38	113	39	113	31	150	37	202	43	283	60	374	79	288	66	207	55	159	47	26	9	74	28	2097	47
Roseburg	90	31	70	24	102	28	190	47	196	43	324	71	404	87	334	78	264	70	189	55	46	16	53	19	2262	51
PENNSYLVANIA																										
Erie	112	38	73	25	219	59	237	59	239	53	265	58	293	63	282	66	204	54	163	48	73	25	100	35	2260	49
Harrisburg	131	44	145	49	240	65	244	61	275	62	303	67	242	53	288	68	206	55	208	60	111	37	105	36	2498	56
Philadelphia	137	45	154	51	218	59	224	56	262	59	294	65	223	49	253	60	1									

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SUNSHINE, AMOUNT AND PERCENT

YEAR 1945

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible
TEXAS (Cont'd)																										
Dallas	146	46	117	38	174	47	197	51	313	73	253	59	273	62	287	69	285	77	228	65	222	71	152	49	2647	60
Del Rio	163	50	155	48	177	47	277	72	302	72	225	54	271	63	309	76	272	74	238	67	211	66	184	57	2784	63
El Paso	237	74	237	77	286	77	327	84	378	88	392	92	356	82	336	82	322	87	260	74	263	83	190	61	2584	80
Fort Worth	191	60	141	46	206	56	237	61	331	77	299	70	317	73	336	81	292	79	235	67	230	73	152	49	2967	66
Galveston	159	49	148	47	184	49	223	58	308	73	269	64	260	61	238	58	266	72	245	69	236	74	140	44	2676	60
Houston	171	53	150	48	176	47	232	60	319	75	249	59	230	53	250	61	233	63	200	57	174	54	130	41	2514	57
Palestine	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Port Arthur	163	50	144	46	164	44	235	61	317	75	304	72	286	66	260	64	295	80	260	73	236	74	150	47	2814	63
San Antonio	148	46	138	44	163	44	249	64	299	71	231	55	201	47	186	46	277	75	208	59	152	48	151	47	2403	54
UTAH																										
Modena	214	70	185	61	233	63	265	67	345	78	308	70	314	70	293	71	316	85	221	64	195	64	183	62	3072	69
Salt Lake	185	62	131	44	205	55	230	58	275	61	274	61	309	67	280	66	323	86	280	81	146	49	138	48	2776	62
VERMONT																										
Burlington	101	35	114	39	173	47	179	44	124	27	254	55	244	52	264	61	171	46	108	32	75	26	120	43	1927	43
VIRGINIA																										
Cape Henry	178	58	184	60	279	75	248	63	303	69	326	74	252	56	286	68	225	60	260	75	201	66	104	35	2846	64
Lynchburg	153	50	136	45	236	64	230	58	275	63	315	72	224	50	258	61	176	47	233	67	143	47	142	47	2521	57
Norfolk	155	50	168	55	270	73	246	62	305	70	306	70	223	50	286	68	215	58	249	71	188	61	93	31	2704	61
Richmond	139	45	148	49	224	60	217	55	254	57	268	60	155	35	237	56	181	49	218	63	149	49	98	33	2288	51
Washington Nat'l. Airport	113	37	132	44	236	64	241	61	281	63	305	68	224	50	298	70	181	48	213	62	132	44	104	35	2460	55
WASHINGTON																										
North Head	98	35	73	25	115	31	158	39	167	36	266	56	240	50	194	44	203	54	127	37	53	18	75	28	1769	38
Seattle	125	45	77	27	173	47	185	45	242	51	200	42	329	68	217	49	175	46	135	40	32	12	69	26	1959	44
Spokane	58	21	105	36	151	41	189	46	318	68	316	66	439	91	356	81	236	63	204	61	70	25	32	12	2474	55
Tacoma	82	29	63	22	127	34	147	36	202	43	252	53	326	68	245	56	165	44	121	36	34	12	78	29	1842	41
Tatoosh	92	33	102	36	103	28	115	28	133	28	187	39	246	51	173	39	179	48	126	37	18	7	68	26	1542	34
Walla Walla	72	25	130	45	181	49	269	66	330	71	366	78	438	92	337	77	242	64	235	69	65	23	38	14	2703	56
Yakima	44	16	146	51	193	52	301	74	307	66	408	86	449	94	377	86	298	79	208	62	74	26	64	24	2869	64
WEST VIRGINIA																										
Elkins	74	24	119	39	206	55	251	63	254	57	239	54	266	59	251	59	138	37	207	60	126	42	72	25	2203	49
Parkersburg	73	24	93	31	175	47	192	48	209	47	173	39	278	61	293	69	176	47	211	61	111	37	76	26	2060	45
WISCONSIN																										
Green Bay	120	42	171	58	254	69	201	50	242	53	297	64	319	68	296	68	211	56	205	60	106	37	136	50	2558	56
La Crosse	123	42	140	48	214	58	204	51	237	52	259	56	320	68	306	71	193	51	221	65	71	25	88	32	2376	53
Madison	74	25	102	35	176	48	158	39	178	39	196	43	281	61	257	60	165	44	212	62	91	31	101	36	1991	45
Milwaukee	82	28	130	44	202	55	178	44	172	38	211	46	271	58	269	62	155	41	183	53	95	33	115	41	2063	46
WYOMING																										
Cheyenne	192	64	137	46	259	70	196	49	208	46	268	57	303	66	241	56	245	66	272	79	199	67	161	56	2671	60
Lander	217	74	227	77	270	73	243	60	234	73	316	69	403	87	367	85	288	77	275	79	185	63	232	82	3354	75
Sheridan	160	56	172	59	199	54	210	52	212	46	155	33	355	75	298	69	218	58	206	61	117	41	96	35	2398	53
PACIFIC AREA																										
Honolulu	285	83	240	75	281	75	210	55	290	71	296	74	259	63	288	72	293	80	268	74	230	69	211	62	3151	71
PUERTO RICO																										
San Juan	259	75	195	60	282	76	237	63	194	48	286	72	239	59	259	66	163	44	177	49	199	59	222	65	2712	61
ALASKA																										
Anchorage	46	23	69	28	209	57	326	74	269	50	296	51	334	59	132	27	151	39	75	24	62	28	49	28	2018	41
Fairbanks	104	65	91	39	198	54	237	52	336	58	285	44	231	37	82	16	84	21	61	20	85	45	49	41	1843	41
Juneau	53	23	83	32	87	24	140	32	283	54	108	20	51	9	138	29	39	10	28	9	89	37	47	23	1146	25
Ketchikan	38	16	55	20	78	21	107	25	327	65	108	21	104	20	286	62	69	18	41	13	58	23	24	11	1295	26
Nome	48	29	99	42	230	63	265	58	270	47	337	53	325	53	146	29	90	23	103	34	86	45	55	43	2054	43

SUNSHINE, AMOUNT AND PERCENT

Table 13

YEAR 1946

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible
ALABAMA																										
Birmingham	75	24	175	57	214	58	251	64	192	45	219	51	163	37	217	52	136	37	233	66	122	39	146	47	2143	48
Mobile	133	41	203	65	248	67	307	79	252	59	293	69	200	46	222	54	159	43	278	79	153	48	250	79	2698	61
Montgomery	104	33	211	68	244	66	303	78	294	69	323	76	257	59	301	73	205	55	296	84	161	51	216	69	2915	66
ARIZONA																										
Phoenix	225	71	247	80	286	77	312	80	417	97	417	97	351	80	308	74	312	84	269	76	234	75	201	65	3579	80
Yuma	288	90	293	95	346	93	344	88	421	98	423	99	368	84	376	91	322	87	329	93	282	89	243	78	4035	91
ARKANSAS																										
Fort Smith	139	44	213	70	172	46	245	62	235	54	281	65	354	80	297	71	201	54	224	64	152	49	158	52	2671	60
Little Rock	144	46	193	63	237	64	287	73	270	62	311	72	294	67	277	66	180	48	234	67	128	41	145	47	2700	60
CALIFORNIA																										
Eureka	158	53	137	46	185	50	220	55	212	47	301	67	252	55	151	35	221	59	217	63	121	41	104	36	2279	51
Fresno	187	60	234	77	285	77	364	92	390	89	426	97	421	94	413	99	338	91	307	88	182	59	76	25	3623	81
Los Angeles	272	86	254	83	253	68	266	68	184	43	338	78	342	78	344	83	314	85	276	79	234	75	167	54	3244	73
Red Bluff	190	63	165	55	200	54	324	81	367	82	408	91	417	92	406	96	347	93	259	75	164	55	106	36	3353	75
Sacramento	168	55	177	59	245	66	349	88	378	85	427	96	426	94	409	97	352	94	279	81	162	54	83	28	3455	78
San Diego	262	82	250	81	261	70	245	63	272	63	330	77	326	75	300	73	259	70	241	68	225	71	167	54	3138	71
San Francisco	221	72	165	55	212	67	294	74	234	53	347	79	302	67	223	53	282	76	283	81	174	57	119	40	2856	64
COLORADO																										
Denver	205	68	239	80	247	67	287	72	221	50	309	69	314	69	270	63	274	73	228	66	185	61	190	65	2969	67
Grand Junction	186	61	215	72	243	65	268	67	293	66	385	86	305	67	281	66	306	82	187	54	106	35	168	57	2943	67
Pueblo	233	76	264	88	236	64	290	73	269	61	353	80	330	73	269	64	299	80	236	68	179	59	173	58	3131	70
CONNECTICUT																										
Hartford	150	51	172	58	289	78	242	60	246	55	325	71	303	66	237	55	234	63	198	58	142	48	144	51	2682	60
New Haven	132	44	171	57	272	73	251	63	248	55	306	68	292	64	237	55	257	69	229	67	150	50	145	50	2690	63
FLORIDA																										
Apalachicola	203	62	231	74	268	72	325	84	311	73	311	74	298	70	250	61	205	55	291	72	173	54	224	70	3090	69
Jacksonville	144	44	141	45	190	51	286	74	186	44	249	59	199	46	171	42	184	50	205	58	132	41	221	70	2308	52
Key West	198	59	215	68	248	67	301	79	321	78	240	59	269	64	258	64	200	54	236	66	227	69	186	56	2899	65
Miami	212	64	218	69	236	63	302	79	213	51	206	50	227	54	255	63	203	55	234	65	200	61	172	52	2678	60
Pensacola	150	46	215	69	244	66	326	84	295	70	315	75	293	68	277	68	219	59	292	82	170	53	235	74	3031	68
Tampa	237	72	229	73	284	76	330	86	329	79	274	66	326	77	319	79	225	61	296	83	229	71	243	75	3321	75
GEORGIA																										
Atlanta	113	36	187	61	226	61	284	73	274	64	290	67	218	50	272	65	201	54	236	67	143	46	198	64	2642	59
Augusta	139	44	227	74	254	68	311	80	328	76	355	82	308	70	311	75	253	68	267	76	178	57	232	75	3163	71
Macon	137	43	218	71	239	64	300	77	313	73	331	77	288	66	283	68	210	57	233	66	148	47	221	71	2921	65
Savannah	189	59	213	69	231	62	293	75	245	57	298	70	278	64	230	56	219	59	250	71	156	49	216	69	2818	63
IDAHO																										
Boise	139	48	125	43	181	49	272	67	295	65	315	68	361	77	364	84	295	79	181	53	101	35	84	30	2713	61
Pocatello	101	35	159	54	208	56	282	70	269	59	379	83	359	77	356	83	286	76	154	45	116	40	103	37	2772	62
ILLINOIS																										
Cairo	127	41	174	57	218	59	261	66	203	46	348	79	358	80	283	67	256	69	265	76	161	53	139	46	2793	63
Chicago	132	45	141	47	201	54	283	71	243	54	279	61	358	78	319	74	296	79	214	62	141	48	148	52	2755	62
Moline	152	51	158	53	201	54	279	70	253	56	315	69	372	81	296	69	301	80	197	57	120	40	130	45	2774	60
Peoria	144	48	146	49	203	55	230	58	200	45	268	59	325	71	215	50	298	80	205	59	122	41	126	43	2482	55
Springfield	161	53	184	62	246	66	281	71	226	51	334	75	357	79	249	59	322	86	237	69	156	52	129	44	2882	65
INDIANA																										
Evansville	125	41	158	52	202	55	238	60	203	46	350	79	325	72	259	61	259	69	224	65	145	48	144	48	2632	59
Fort Wayne	135	45	145	49	204	55	252	63	220	49	261	58	368	80	265	62	254	68	239	69	121	41	116	40	2580	58
Indianapolis	119	39	148	49	191	52	241	61	204	46	322	72	366	81	287	68	276	74	227	66	143	48	125	43		

SUNSHINE, AMOUNT AND PERCENT

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YEAR 1946

YEAR 1970																											
Station		January		February		March		April		May		June		July		August		September		October		November		December		Annual	
		Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible
MISSOURI																											
Columbia	153	50	198	66	210	57	252	63	218	49	355	80	381	84	269	64	297	80	220	63	134	45	99	34	2786	63	
Kansas City	163	54	235	78	205	55	229	58	266	60	352	79	384	85	264	62	279	75	216	62	156	52	120	41	2869	63	
St. Joseph	169	56	212	71	198	53	254	64	228	51	321	71	343	76	215	51	240	64	191	55	143	48	107	37	2621	58	
St. Louis	149	49	175	58	212	57	253	64	237	54	357	80	367	81	222	52	298	80	241	70	144	47	112	38	2767	62	
Springfield	140	45	251	83	262	71	288	73	307	70	370	84	386	86	298	71	285	77	226	65	144	47	132	44	3089	69	
MONTANA																											
Billings	115	41	125	43	174	47	235	58	217	47	261	56	351	74	284	65	217	58	150	44	132	46	115	42	2376	53	
Great Falls	118	42	127	44	181	49	256	63	257	55	280	59	356	74	327	74	213	57	132	39	157	56	150	57	2554	57	
Havre	140	51	169	59	236	64	316	77	318	67	366	76	398	82	345	78	234	62	169	50	122	44	110	42	2923	65	
Helena	160	57	183	63	222	60	294	72	246	53	275	58	353	74	322	73	228	61	163	48	149	53	134	50	2729	61	
Kalispell	47	17	70	24	142	38	189	46	291	62	277	58	380	79	300	68	180	48	99	29	94	34	54	21	2123	47	
Missoula	74	26	85	29	181	49	243	60	306	66	300	63	368	77	356	81	230	61	130	39	91	32	80	30	2444	55	
NEBRASKA																											
Lincoln	194	65	211	71	207	56	278	70	249	56	334	74	339	74	240	56	210	56	194	56	181	61	183	63	2820	63	
North Platte	187	63	221	74	217	58	282	71	271	60	354	78	388	85	296	69	240	64	204	59	165	56	161	56	2986	67	
Omaha	192	65	214	72	215	58	306	77	293	65	367	81	372	81	299	70	260	69	194	56	161	54	163	57	3036	68	
Valentine	226	77	238	81	236	64	322	80	287	63	338	74	362	78	328	76	264	70	198	58	180	61	182	65	3161	71	
NEVADA																											
Ely	221	73	237	79	233	63	286	72	286	64	399	89	344	76	318	75	325	87	221	64	172	57	164	56	3206	71	
Reno	202	67	164	55	234	63	295	74	323	73	399	89	395	87	373	88	323	86	236	68	152	50	151	51	3247	73	
Winnemucca	202	68	167	56	206	56	281	70	311	69	398	88	387	84	360	84	308	82	153	45	105	35	113	39	2991	67	
NEW HAMPSHIRE																											
Concord	120	41	156	53	265	72	179	45	225	49	292	63	289	62	197	46	196	52	171	50	101	35	95	34	2286	50	
Mt. Washington	76	26	89	30	222	59	127	31	144	31	141	30	181	38	88	20	183	48	180	52	65	22	48	17	1544	34	
NEW JERSEY																											
Atlantic City	138	46	166	55	247	67	252	64	217	49	240	54	300	66	271	64	218	58	258	75	208	69	167	57	2682	60	
Trenton	160	54	190	64	246	66	255	64	260	58	258	57	310	68	235	55	242	65	192	56	157	52	118	41	2625	59	
NEW MEXICO																											
Albuquerque	209	67	254	83	253	68	297	76	356	82	376	87	325	74	287	69	282	76	276	79	199	64	221	72	3335	75	
Roswell	211	67	277	90	319	86	346	89	351	81	363	85	380	87	317	77	230	62	261	74	209	67	250	81	3514	79	
NEW YORK																											
Albany	139	47	149	51	263	71	193	48	235	52	298	65	325	70	203	47	232	62	185	54	102	35	59	21	2383	52	
Binghamton	100	34	127	43	191	52	163	41	172	38	204	45	216	47	87	20	125	33	186	54	152	52	91	32	1814	41	
Buffalo	155	53	173	58	254	69	263	65	278	61	298	65	333	72	189	44	221	59	204	59	92	31	65	23	2525	57	
Canton	110	38	147	50	226	61	160	40	245	53	312	67	308	65	244	56	252	67	194	57	98	34	96	35	2392	54	
New York	145	49	187	63	275	74	283	71	268	60	259	57	294	64	233	55	246	66	219	64	174	58	177	61	2760	62	
Oswego	77	27	100	34	234	63	227	56	284	62	323	70	350	75	265	61	267	71	211	62	84	29	65	23	2487	56	
Rochester	124	42	118	40	252	68	249	62	258	57	317	69	362	78	281	65	273	73	215	63	100	34	99	35	2648	59	
Syracuse	99	34	124	42	229	62	215	54	256	56	319	69	361	78	262	61	269	72	201	59	88	30	66	23	2489	56	
NORTH CAROLINA																											
Asheville	131	42	178	58	233	63	264	67	230	53	308	71	281	63	258	62	212	57	227	65	155	50	153	51	2630	59	
Charlotte	118	38	172	56	183	49	235	60	256	59	329	76	271	61	264	62	224	60	235	67	167	54	192	63	2646	60	
Greensboro	146	47	190	62	217	58	246	62	267	61	285	65	253	57	247	59	258	69	248	71	187	61	146	48	2690	60	
Hatteras	127	41	165	54	167	45	236	60	243	56	245	56	204	46	203	49	186	50	209	60	133	43	174	57	2292	51	
Raleigh	100	32	165	54	185	50	234	60	253	58	284	65	255	58	223	53	211	57	204	58	155	50	189	62	2458	55	
Wilmington	153	48	195	64	230	62	283	72	270	62	307	71	260	59	267	64	233	63	250	71	192	62	200	65	2840	64	
NORTH DAKOTA																											
Bismarck	170	61	183	64	221	60	308	75	245	53	293	62	357	75	323	74	231	61	129	38	171	60	138	52	2769	62	
Devils Lake	115	42	169	59	206	56	272	66	252	54	255	53	334	69	261	59	151	40	156	47	158	57	86	33	2415	54	
Fargo	121	43	171	59	192	52	284	69	240	51	309	65	324	68	295	67	177	47	158	47	149	53	93	35	2513	56	
Williston	98	36	130	45	201	55	279	68	252	53	261	55	354	73	297	67	192	51	111	33	106	38	30	12	2311	52	
OHIO																											
Cincinnati	123	40	150	50	224	60	244	62	220	50	313	70	301	67	244	58	228	61	168	49	107	36	103	35	2425	54	
Cleveland	116	39	110	37	227	61	244	61	205	46	291	64	364	79	279	65	266	71	217	63	122	41	82	29	2523	55	
Columbus	131	44	166	56	234	63	230	58	195	44	306	68	310	68	292	69	293	78	240	70	170	57	140	48	2707	61	
Dayton	116	38	136	45	218	59	252	63	204	46	327	73	345	76	300	71	271	72	230	67	149	50	112	39	2660	60	
Sandusky	130	44	115	39	184	50	244	61	188	42	272	60	355	77	285	67	258	69	226	66	141	48	95	33	2494	56	
Toledo	141	48	128	43	205	55	255	64	189	42	294	65	375	81	299	70	277	74	219	64	107	36	70	25	2559	57	
OKLAHOMA																											
Oklahoma City	172	55	243	80	228	62	268	68	313	72	354	81	415	94	313	75	282	76	226	64	191	62	158	52	3163	71	
Tulsa	132	42	190	62	164	44	205	52	174	40	207	47	309	70	229	55	234	63	170	49	155	50	137	45	2306	52	
OREGON																											
Baker	126	45	124	42	171	46	268	66	320	70	277	60	378	80	365	84	247	66	167	49	78	27	103	37	2624	59	
Portland	89	31	53	18	143	39	210	52	272	59	198	42	284	60	293	67	195	52	100	30	93	32	60	22	1990	44	
Roseburg	76	26	95	32	100	27	192	48	284	62	233	51	311	67	323	75	248	66	106	31	65	22	41	15	2074	47	
PENNSYLVANIA																											
Erie	95	32	118	40	258	70	275	69	231	51	288	63	342	74	271	63	264	70	200	58	85	29	46	16	2473	53	
Harrisburg	115	38	167	56	228	62	277	70	276	62	289	64	343	75	270	64	272	73	227	66	182	61	158	54	2804	63	
Philadelphia	130	43	164	55	229	62	244	61	258	58	258	57	324	71	231	54	253	68	23								

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SUNSHINE, AMOUNT AND PERCENT

YEAR 1946

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible
TEXAS (Cont'd)																										
Corpus Christi	170	52	126	40	276	74	259	67	196	47	285	68	323	76	275	68	146	40	204	57	89	27	141	44	2490	56
Dallas	122	38	193	63	219	59	254	65	217	50	302	70	364	83	274	66	161	43	177	50	147	47	175	56	2605	57
Del Rio	167	51	194	62	272	73	252	65	194	46	253	60	353	82	349	85	199	54	178	50	170	53	191	60	2772	62
El Paso	179	56	236	76	234	63	246	63	377	88	372	87	316	73	300	73	246	66	293	83	271	86	235	75	3305	74
Fort Worth	131	41	207	67	244	66	272	70	271	63	335	78	386	88	272	66	172	46	187	53	167	53	170	55	2814	63
Galveston	129	40	142	45	254	68	268	69	228	54	285	68	254	59	292	72	203	55	238	67	152	47	149	47	2594	58
Houston	156	48	139	45	248	67	196	51	201	48	236	56	215	50	263	64	100	27	151	43	128	40	124	39	2157	49
Palestine	124	39	181	58	236	63	252	65	248	58	299	70	334	77	306	74	230	62	232	66	118	37	165	53	2725	61
Port Arthur	141	43	179	57	280	75	298	77	243	57	317	75	274	64	317	77	195	53	235	66	160	50	176	55	2815	63
San Antonio	132	41	151	48	256	69	201	52	91	22	329	78	346	81	253	62	105	28	174	49	160	50	188	59	2386	54
UTAH																										
Modena	165	54	218	69	213	57	281	71	254	58	386	88	233	52	245	58	345	93	222	64	131	43	131	44	2824	63
Salt Lake	170	57	202	68	256	69	329	82	354	79	433	96	380	83	345	81	328	88	167	49	130	44	79	27	3173	71
VERMONT																										
Burlington	126	44	149	51	263	71	189	47	252	55	318	69	344	73	230	53	264	70	211	62	62	22	75	27	2483	56
VIRGINIA																										
Cape Henry	129	42	197	65	234	63	263	67	289	66	241	66	283	63	263	63	212	57	239	68	186	61	180	60	2716	61
Lynchburg	136	44	163	54	185	50	234	59	245	56	287	65	270	60	195	46	218	58	207	59	212	70	201	67	2553	57
Norfolk	104	34	182	60	208	56	228	58	297	68	305	69	306	68	270	64	220	59	231	66	178	58	166	55	2695	60
Richmond	131	43	187	62	213	57	256	65	250	57	272	63	252	56	244	58	235	63	218	62	196	64	169	57	2623	59
Washington Nat'l. Airport	134	44	189	63	224	60	242	61	251	57	267	60	329	73	286	68	272	73	242	70	185	58	152	52	2773	62
WASHINGTON																										
North Head	43	15	47	16	113	31	146	36	165	35	144	30	203	43	167	38	136	36	119	35	101	35	78	29	1462	32
Seattle	56	20	54	19	107	29	176	43	257	55	177	37	241	50	237	54	212	56	100	30	79	28	46	17	1742	39
Spokane	56	20	99	34	113	31	185	45	300	64	193	40	347	72	363	82	233	62	159	47	77	28	78	30	2203	49
Tacoma	65	23	76	26	130	35	181	44	297	64	238	50	305	63	272	62	149	40	101	30	97	34	54	20	1965	44
Tatoosh	50	18	66	23	130	35	146	36	252	53	198	41	244	50	236	53	168	45	154	46	98	35	50	19	1792	40
Walla Walla	131	46	158	54	193	52	302	74	346	75	296	63	382	80	357	82	256	68	180	53	87	30	96	36	2784	59
Yakima	117	42	145	50	220	60	295	72	379	81	327	69	399	84	377	86	---	---	---	---	---	---	---	---	---	---
WEST VIRGINIA																										
Elkins	108	35	125	42	184	50	173	44	141	32	211	47	261	58	173	41	230	61	210	61	193	64	116	40	2125	48
Parkersburg	133	44	136	45	198	53	206	52	199	45	311	70	301	66	237	56	248	66	185	53	160	53	102	35	2416	53
WISCONSIN																										
Green Bay	133	46	129	44	198	54	281	69	261	57	256	55	339	72	263	61	224	60	215	63	129	45	126	46	2554	57
La Crosse	121	42	128	44	171	46	284	70	258	56	280	60	336	72	280	65	221	59	159	47	124	43	102	37	2464	55
Madison	133	45	122	41	188	51	293	73	277	61	290	63	348	75	307	71	254	68	200	59	113	38	114	40	2639	59
Milwaukee	112	38	100	34	160	43	239	59	249	55	258	56	344	74	292	68	230	61	166	49	110	38	119	42	2379	53
WYOMING																										
Cheyenne	182	61	213	72	230	62	237	59	187	42	299	66	274	60	233	55	256	69	203	59	137	46	145	50	2596	58
Lander	233	79	269	91	294	79	332	82	274	60	378	82	380	82	309	72	269	72	176	51	213	73	196	69	3323	74
Sheridan	122	43	145	50	189	51	272	67	163	36	232	50	290	62	267	61	207	55	107	31	159	55	143	52	2296	51
PACIFIC AREA																										
Honolulu	212	62	197	61	244	65	245	65	295	72	280	69	277	67	309	78	308	84	268	74	228	68	204	61	3067	69
PUERTO RICO																										
San Juan	196	57	195	60	275	74	262	69	184	46	236	60	318	78	242	61	175	48	129	35	107	32	170	50	2489	56
ALASKA																										
Anchorage	56	27	77	31	210	57	238	54	199	37	318	55	268	47	150	31	143	37	44	14	60	27	84	48	1847	39
Fairbanks	42	26	67	28	182	50	307	67	273	47	381	59	305	49	187	37	171	44	93	31	79	42	11	9	2098	46
Juneau	52	23	83	32	147	40	186	43	262	50	254	47	98	18	169	36	138	36	35	11	69	29	29	14	1522	34
Ketchikan	43	18	55	20	86	23	79	19	269	53	178	34	73	14	174	37	106	28	71	22	83	33	23	10	1240	26
Nome	26	16	144	61	237	65	210	46	222	39	174	27	239	39	146	29	100	26	21	7	59	31	29	23	1607	35

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SUNSHINE, AMOUNT AND PERCENT

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Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible
ALABAMA																										
Birmingham	70	22	209	68	161	43	149	38	251	58	206	48	253	58	193	46	215	58	182	52	91	29	128	41	2108	47
Mobile	133	41	231	74	233	63	244	63	276	65	295	70	335	78	289	70	272	73	242	68	139	44	130	41	2819	62
Montgomery	104	33	263	85	248	67	238	61	337	79	307	72	364	84	304	74	277	75	229	65	141	45	145	46	2957	66
ARIZONA																										
Phoenix	258	81	245	79	314	84	352	90	379	88	411	96	354	81	311	75	322	87	307	87	225	72	209	68	3687	83
Prescott	263	84	234	77	303	82	314	80	337	78	386	89	314	71	280	67	298	80	293	84	234	75	207	68	3463	78
Yuma	300	94	268	87	348	94	358	92	409	95	424	99	368	84	326	79	330	89	337	96	250	79	251	80	3969	88
ARKANSAS																										
Fort Smith	123	40	208	68	192	52	208	53	264	61	304	70	341	77	322	77	290	78	249	71	148	48	201	66	2850	64
Little Rock	101	32	229	75	212	57	194	49	294	68	298	69	324	73	320	77	281	75	262	71	128	42	176	57	2819	62
CALIFORNIA																										
Eureka	133	45	91	30	107	29	217	54	235	52	249	55	287	63	212	50	208	56	116	34	157	53	97	34	2109	47
Fresno	164	53	145	48	288	78	359	91	406	93	411	94	444	99	412	98	353	95	272	78	238	77	152	50	3644	82
Los Angeles	266	84	192	62	244	66	264	68	236	55	263	61	406	93	353	85	287	77	235	67	245	78	234	76	3225	72
Red Bluff	190	63	180	60	206	56	314	79	361	81	359	80	430	95	388	91	347	93	184	53	200	67	154	53	3313	74
Sacramento	182	60	143	47	214	58	321	81	380	86	384	86	449	100	415	98	344	92	191	55	191	63	155	52	3369	76
San Diego	252	79	214	69	238	64	253	65	242	56	242	57	329	75	299	72	265	71	256	73	236	75	223	72	3049	69
San Francisco	197	64	116	38	174	47	280	71	317	72	326	74	359	80	284	67	281	75	207	60	205	67	123	41	2869	64
COLORADO																										
Denver	232	77	195	65	218	59	244	61	262	59	309	69	328	72	301	71	273	73	250	72	180	60	150	51	2942	66
Grand Junction	212	70	191	63	237	64	246	62	304	69	316	71	338	75	270	64	290	78	234	67	175	58	173	59	2986	67
Pueblo	233	76	174	58	264	71	273	69	287	65	332	75	356	79	344	82	309	83	292	84	201	66	202	68	3267	73
CONNECTICUT																										
Hartford	154	52	187	63	254	68	248	62	218	48	277	61	281	61	271	63	233	62	233	68	142	48	164	58	2662	60
New Haven	162	55	204	68	248	67	221	55	238	53	299	66	266	58	278	65	234	62	235	68	155	52	207	72	2747	62
FLORIDA																										
Apalachicola	110	34	170	55	206	55	227	59	289	68	242	58	288	67	277	68	249	67	228	64	129	40	117	36	2532	56
Jacksonville	188	58	212	68	231	62	234	60	292	69	226	53	215	50	267	65	202	55	169	48	138	43	150	47	2524	57
Key West	232	69	179	57	301	81	327	86	323	78	281	69	272	65	254	63	223	60	229	64	236	72	205	62	3062	69
Miami	230	69	220	70	268	72	276	72	283	68	203	49	186	44	249	62	191	52	216	60	232	71	225	69	2779	63
Pensacola	137	42	214	69	240	65	274	71	325	77	309	73	355	82	316	77	295	80	261	74	148	46	154	49	3028	68
Tampa	240	73	174	55	273	73	284	74	287	69	218	53	210	50	219	54	168	45	170	48	205	63	187	58	2635	60
GEORGIA																										
Atlanta	101	32	229	74	194	52	200	51	315	73	259	60	318	73	246	59	230	62	153	43	117	38	116	37	2478	56
Augusta	136	43	256	83	237	64	280	72	338	78	314	73	339	77	296	71	288	77	202	57	149	48	179	58	3014	67
Macon	97	31	247	80	223	60	262	67	343	80	330	77	352	81	297	72	280	75	207	59	135	43	137	44	2910	64
Savannah	127	40	216	70	217	58	255	66	283	66	255	60	223	51	195	47	191	52	136	39	121	38	152	48	2371	53
IDAHO																										
Boise	131	45	189	64	268	73	293	73	354	77	334	72	424	91	380	88	292	78	179	52	91	31	110	39	3045	68
Pocatello	172	59	197	67	259	70	231	58	313	69	276	60	383	82	336	78	298	78	206	60	68	23	114	40	2853	64
ILLINOIS																										
Cairo	105	34	193	64	217	58	213	54	317	72	267	61	387	86	386	92	324	87	280	80	132	43	187	62	3008	67
Chicago	134	45	149	50	193	52	155	39	228	51	278	61	358	78	339	79	255	68	236	69	122	41	113	40	2560	57
Moline	150	51	117	39	171	46	162	41	251	56	241	53	374	81	359	84	276	74	206	60	81	27	106	37	2494	56
Peoria	160	54	169	57	221	60	197	49	255	57	235	52	362	79	333	78	278	74	221	64	95	32	114	40	2640	58
Springfield	130	43	162	54	212	57	185	47	313	70	278	62	392	86	368	87	302	81	233	67	79	26	97	33	2751	59
INDIANA																										
Evansville	107	35	176	58	229	62	223	56	337	76	304	69	380	85	369	88	317	85	268	77	117	38	170	57	2997	67
Fort Wayne	94	32	160	54	204	55	215	54	250	56	288	64	308	67	330	77	267	71	234	68	95	32	86	30	2531	57
Indianapolis	86	28	156	52	197	53	213	54	285	64	281	63	331	73	338	80	291	78	259	75	92	31	126	43	2655	60
Terre Haute	99	33	163	54	185	50	202	51	273	61	229	51	317	70	299	70	264	71	264	76	110	37	148	50	2553	57
IOWA																										

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Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible
MISSOURI																										
Columbia	154	51	178	59	181	49	191	48	298	67	237	53	359	79	359	85	281	75	235	68	96	32	151	51	2720	61
Kansas City	163	54	150	50	147	40	194	49	252	57	243	54	367	81	334	79	288	77	254	73	114	38	162	55	2668	60
St. Joseph	163	54	178	59	170	46	213	53	243	55	201	45	369	81	332	78	246	66	192	56	110	36	151	52	2568	58
St. Louis	122	40	143	48	198	53	202	51	298	67	247	56	343	76	338	80	276	74	247	71	107	35	164	56	2685	60
Springfield	152	49	210	69	199	54	208	53	297	68	275	62	330	74	338	80	294	79	270	78	116	38	155	52	2844	64
MONTANA																										
Billings	117	41	164	57	222	60	285	70	283	61	266	57	384	81	334	76	235	62	226	67	105	37	120	44	2741	61
Great Falls	138	50	179	62	241	65	265	65	294	63	269	56	389	81	333	75	208	55	188	56	70	25	139	52	2713	61
Havre	109	40	161	57	260	70	291	71	341	72	305	63	412	85	324	73	221	58	202	60	73	26	100	38	2799	63
Helena	149	53	175	61	196	53	239	59	334	72	294	62	387	81	356	81	240	64	197	58	90	32	126	47	2783	62
Kalispell	93	34	166	58	189	51	273	67	262	56	196	41	409	84	275	62	182	48	89	26	59	21	59	22	2252	50
Missoula	116	42	146	51	191	52	235	58	297	64	240	51	418	87	333	76	203	54	108	32	41	15	32	12	2360	53
NEBRASKA																										
Lincoln	197	66	141	47	218	59	204	51	294	66	269	60	382	84	366	86	282	75	249	72	108	36	158	55	2868	64
North Platte	209	70	181	61	241	65	232	58	278	62	304	67	331	72	345	81	262	70	209	61	114	38	165	57	2871	64
Omaha	181	61	124	42	174	47	173	43	287	64	248	55	386	84	368	86	256	68	202	59	108	36	145	50	2652	60
Valentine	206	70	174	59	222	60	210	52	320	71	298	65	414	89	361	84	282	75	264	77	133	46	204	72	3088	69
NEVADA																										
Ely	227	75	210	70	287	77	261	66	300	68	293	65	392	86	339	80	318	85	231	67	125	42	182	62	3165	71
Reno	239	79	216	72	233	63	248	62	300	67	310	69	442	97	374	88	347	93	214	62	158	53	161	55	3242	73
Winnemucca	197	66	190	64	219	59	232	58	318	71	289	64	422	92	380	89	334	89	228	66	105	35	116	40	3030	65
NEW HAMPSHIRE																										
Concord	120	41	116	39	169	46	147	37	175	38	202	44	211	45	219	51	221	59	254	74	124	43	136	49	2094	47
Mt. Washington	65	22	69	23	86	23	98	24	149	32	113	24	86	18	154	35	126	33	212	61	115	39	93	33	1366	31
NEW JERSEY																										
Atlantic City	158	52	232	77	251	68	253	64	287	64	314	70	314	69	275	65	239	64	232	67	163	54	221	75	2939	66
Trenton	131	44	175	59	219	59	225	57	247	55	278	62	282	62	250	59	213	57	225	65	143	48	158	55	2546	57
NEW MEXICO																										
Albuquerque	235	75	215	70	266	72	273	70	328	76	370	85	369	84	298	72	332	89	287	82	201	65	188	61	3362	75
Roswell	247	78	251	81	294	79	308	79	327	76	388	91	389	89	331	80	346	93	307	87	190	61	217	70	3595	80
NEW YORK																										
Albany	82	28	165	56	211	57	218	54	253	56	256	56	228	49	221	51	182	49	270	79	129	44	135	48	2350	52
Binghamton	91	31	122	41	122	33	145	36	206	46	186	41	157	34	143	33	192	51	248	72	80	27	97	34	1789	40
Buffalo	57	20	67	23	169	46	200	50	238	52	330	72	284	61	332	77	272	72	257	75	94	32	81	29	2381	53
Canton	99	35	121	41	153	41	182	45	204	44	239	51	220	47	207	71	245	65	261	77	126	44	129	47	2286	51
New York	146	49	198	66	250	67	241	60	255	57	307	68	318	70	263	62	244	65	228	66	147	49	183	63	2780	62
Oswego	85	29	102	35	124	34	178	44	227	50	294	64	244	52	319	74	259	69	251	73	65	22	50	18	2198	49
Rochester	94	32	116	39	145	39	196	49	215	47	307	67	250	54	307	71	249	66	243	71	118	40	97	34	2337	27
Syracuse	70	24	86	29	117	32	153	38	205	45	277	60	259	56	271	63	257	69	235	69	70	24	52	18	2052	46
NORTH CAROLINA																										
Asheville	112	36	181	59	205	55	245	62	326	75	280	64	313	71	249	60	222	60	155	44	138	45	152	50	2578	57
Charlotte	126	40	233	76	235	63	238	61	343	79	309	71	320	72	271	65	230	62	184	53	146	47	164	54	2799	63
Greensboro	114	37	190	62	243	65	227	58	349	80	281	64	317	71	243	58	206	55	187	53	137	44	175	58	2669	60
Hatteras	150	48	183	60	196	53	226	58	320	74	310	71	247	56	254	61	193	52	186	53	129	42	176	58	2570	58
Raleigh	133	43	224	74	232	63	233	59	296	68	252	58	229	52	204	49	165	44	140	40	76	25	128	42	2312	51
Wilmington	159	50	242	79	215	58	247	63	311	72	296	69	281	64	279	67	238	64	215	61	147	47	180	59	2810	63
NORTH DAKOTA																										
Bismarck	152	54	137	47	202	55	163	40	278	60	219	46	417	87	354	81	221	59	192	57	79	28	97	36	2511	56
Devils Lake	140	51	119	41	185	50	197	48	274	58	196	41	362	75	267	60	170	45	174	52	53	19	80	31	2217	50
Fargo	144	52	131	45	181	49	190	47	241	52	213	45	354	74	328	75	219	58	180	53	73	26	91	34	2345	52
Williston	119	43	159	56	207	56	248	61	308	65	245	51	418	87	351	79	233	62	209	62	114	41	115	44	2726	61
OHIO																										
Cincinnati	56	19	108	36	175	47	215	54	287	65	268	60	316	70	292	69	262	70	217	63	107	35	167	57	2470	55
Cleveland	82	28	96	32	152	41	155	39	199	44	284	63	248	54	283	66	241	64	242	70	103	35	67	23	2152	48
Columbus	79	26	148	49	193	52	209	52	226	51	301	67	268	59	267	63	246	66	249	72	105	35	107	37	2398	34
Dayton	58	19	172	57	182	49	202	51	251	56	282	63	283	62	310	73	266	71	241	70	101	34	130	45	2478	56
Sandusky	67	22	123	41	195	53	159	40	225	50	296	65	232	50	286	67	249	67	236	69	106	36	53	19	2227	50
Toledo	56	19	110	37	125	34	98	24	173	38	254	56	224	49	321	75	278	74	231	67	106	36	75	26	2051	46
OKLAHOMA																										
Oklahoma City	171	55	198	65	199	53	192	49	271	62	302	69	380	86	336	80	320	86	287	82	146	47	171	56	2973	67
Tulsa	165	53	219	72	202	54	204	52	288	66	300	69	324	73	309	74	280	75	258	74	143	46	167	55	2859	64
OREGON																										
Baker	126	44	149	51	195	53	209	52	281	61	275	59	398	85	344	79	270	72	151	44	53	18	96	35	2547	57
Portland	71	25	135	47	170	46	213	53	297	64	211	45	275	58	249	57	218	58	56	16	61	21	42	16	1998	45
Roseburg	72	25	105	36	141	38	210	52	299	66	239	52	289	62	308	71	256	68	100	29	59	20	44	16	2122	45
PENNSYLVANIA																										
Erie	47	16	55	18	87	23	132	33	178	40	277	61	171	37	268	62	261	70	237	69	70	24	42	15	1825	41
Harrisburg	127	42	207	69	268	72	244	61	257	58	281	62	283	62	249	58	246	66	236	68	139	47	186	64	2723	61
Philadelphia	169	56	221	74	248	67	247</																			

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Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible
TEXAS (Cont'd)																										
Corpus Christi	83	25	162	52	187	50	208	54	263	63	187	45	315	74	285	70	300	81	264	74	126	39	114	35	2494	56
Dallas	140	44	191	62	197	53	184	47	265	62	320	75	379	87	350	85	329	89	276	78	168	53	157	50	2956	66
Del Rio	130	40	210	67	246	66	230	59	249	59	271	64	384	90	269	66	288	78	263	74	195	61	178	56	2913	66
El Paso	228	71	253	82	304	82	340	87	377	88	360	85	390	90	322	78	345	93	322	91	243	77	250	80	3734	84
Fort Worth	170	53	226	73	214	58	219	56	304	71	339	79	358	82	346	84	331	89	278	79	175	56	197	63	3157	71
Galveston	102	31	157	50	176	47	180	47	273	65	311	74	315	73	283	69	297	80	280	79	131	41	120	37	2625	58
Houston	95	29	174	56	194	52	179	46	194	46	249	59	302	70	246	60	256	69	236	67	144	45	115	36	2384	53
Palestine	105	33	190	61	216	58	207	53	263	62	311	73	365	84	333	81	319	86	282	80	168	53	155	50	2914	66
Port Arthur	114	35	196	63	222	60	201	52	259	61	333	79	359	83	288	70	317	86	286	81	154	48	154	48	2883	65
San Antonio	126	39	202	65	230	62	210	54	267	63	317	76	355	83	302	74	321	87	281	79	184	57	157	49	2952	66
UTAH																										
Modena	254	83	210	70	232	63	231	58	282	64	293	67	319	71	307	73	331	89	233	67	150	49	164	55	3006	62
Salt Lake	150	50	161	54	247	67	232	58	340	76	305	68	366	80	316	74	296	79	228	66	68	23	82	28	2791	62
VERMONT																										
Burlington	88	31	112	38	143	39	162	40	201	44	207	45	268	57	304	70	228	61	238	70	72	25	66	24	2089	47
VIRGINIA																										
Cape Henry	142	46	216	71	244	66	255	65	306	70	303	69	319	71	304	72	239	64	198	57	136	44	203	68	2865	64
Lynchburg	151	49	227	75	231	62	228	58	336	76	299	68	314	70	277	66	212	57	188	54	129	42	190	63	2782	63
Norfolk	148	48	218	72	209	56	235	60	298	68	255	58	265	59	260	62	208	56	180	52	127	42	192	64	2595	58
Richmond	132	43	214	71	227	61	207	52	299	68	243	55	283	63	227	54	184	49	156	45	101	33	152	51	2425	54
Washington Nat'l. Airport	161	53	221	74	280	76	276	70	331	75	312	70	327	72	265	63	255	68	228	66	145	48	189	64	2990	67
WASHINGTON																										
North Head	66	23	133	46	165	45	201	49	256	55	173	37	221	46	178	41	199	53	91	27	96	34	56	21	1835	41
Seattle	77	28	108	37	187	51	206	50	203	43	150	31	260	54	262	59	175	46	60	18	39	14	24	9	1751	39
Spokane	138	50	208	72	239	65	277	68	351	75	266	56	376	78	333	75	223	59	94	28	40	14	34	13	2579	58
Tacoma	75	27	114	39	162	44	237	58	302	65	238	50	291	61	255	58	212	56	58	17	62	22	39	15	2045	46
Tatoosh	67	24	120	42	149	40	183	45	218	46	233	48	271	56	218	49	194	51	75	22	84	30	26	10	1838	41
Walla Walla	119	42	156	54	242	66	271	67	350	76	324	69	390	82	364	83	249	66	124	37	18	6	62	23	2669	56
WEST VIRGINIA																										
Elkins	95	31	93	31	110	30	214	54	194	44	199	45	198	44	187	44	192	51	166	48	81	27	128	43	1857	41
Parkersburg	42	14	82	27	115	31	186	47	201	45	220	49	219	48	198	47	234	63	214	62	113	37	121	41	1945	43
WISCONSIN																										
Green Bay	140	49	186	64	224	60	211	52	248	54	306	66	380	81	363	84	251	67	234	69	106	37	101	37	2750	62
La Crosse	141	49	141	48	183	49	171	42	236	52	263	57	353	75	341	79	252	67	214	63	73	25	106	38	2474	55
Madison	147	50	184	62	236	64	191	48	264	58	260	57	361	78	342	79	254	68	206	60	96	33	93	33	2634	59
Milwaukee	115	39	127	43	209	56	210	52	258	57	290	63	380	82	348	81	248	66	216	63	93	32	63	22	2557	57
WYOMING																										
Cheyenne	185	61	155	52	217	59	193	48	183	41	283	62	364	79	326	76	252	67	219	63	190	64	172	60	2737	61
Lander	210	72	190	65	265	71	270	67	310	68	283	62	373	80	325	76	303	81	236	69	143	49	156	55	3064	69
Sheridan	176	61	179	61	225	61	242	60	300	65	274	59	378	80	350	80	193	51	194	57	99	35	181	66	2791	63
PACIFIC AREA																										
Honolulu	244	71	256	80	283	76	272	72	277	68	285	71	308	75	303	76	262	71	263	73	251	75	227	68	3231	73
PUERTO RICO																										
San Juan	233	67	202	62	269	72	219	58	205	51	262	66	193	47	230	58	159	43	232	64	194	57	253	74	2651	60
ALASKA																										
Anchorage	85	42	86	34	102	28	234	53	172	32	233	41	251	44	177	36	52	13	49	16	29	13	21	12	1491	30
Fairbanks	10	6	128	54	202	56	326	72	360	62	371	58	322	52	177	35	127	32	86	28	50	26	16	13	2175	47
Juneau	45	20	77	30	105	29	72	17	214	41	127	23	121	22	128	27	46	12	44	14	20	9	6	3	1005	22
Ketchikan	48	20	98	36	136	37	98	23	240	48	120	23	168	32	107	23	82	21	34	11	36	14	22	10	1189	25
Nome	76	45	57	24	289	79	250	55	179	31	296	46	115	19	155	30	102	26	118	39	63	33	22	17	1722	37

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Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible
ALABAMA																										
Birmingham	115	36	69	22	160	43	243	62	284	66	288	67	215	49	246	59	226	61	233	66	122	39	109	35	2310	52
Mobile	168	52	86	27	152	41	276	71	320	75	298	71	236	55	216	53	193	52	234	66	139	44	132	42	2450	54
Montgomery	172	54	155	48	219	59	312	80	353	82	317	74	312	72	309	75	260	70	259	73	145	46	147	47	2960	65
ARIZONA																										
Phoenix	287	91	202	63	298	80	346	89	415	96	418	97	384	88	370	89	353	95	295	84	306	98	206	66	3880	87
Prescott	282	90	166	49	273	74	317	81	406	94	397	92	313	71	297	71	313	84	264	75	289	93	201	66	3518	78
Tucson	295	92	220	69	284	76	368	94	406	95	400	94	343	79	322	78	320	86	294	89	309	98	178	57	3739	84
Yuma	297	93	228	71	303	82	352	90	423	99	412	96	421	97	397	96	361	97	314	89	305	97	224	72	4037	90
ARKANSAS																										
Fort Smith	159	51	112	35	206	55	286	73	257	59	357	82	321	72	279	67	312	84	240	69	167	54	164	54	2860	64
Little Rock	151	48	87	27	172	46	297	76	283	65	300	69	277	63	282	68	271	73	250	71	163	52	125	41	2658	58
CALIFORNIA																										
Eureka	125	42	116	37	138	37	145	36	205	46	243	54	215	47	189	44	189	51	146	42	157	53	119	41	1987	44
Fresno	255	82	232	74	278	75	284	72	382	87	415	95	445	100	419	100	366	98	315	90	278	90	96	32	3765	84
Los Angeles	255	81	266	83	268	72	266	68	328	76	300	69	350	80	336	81	314	85	209	60	291	93	230	75	3413	77
Red Bluff	233	77	194	62	205	55	184	46	298	67	346	77	438	96	401	94	312	84	273	79	212	71	119	41	3215	72
Sacramento	239	78	219	70	257	69	205	52	315	71	362	81	426	94	407	96	337	90	267	77	219	72	66	22	3319	74
San Diego	216	68	219	69	253	68	230	59	276	64	233	54	290	66	294	71	273	74	158	45	288	92	191	61	2921	66
San Francisco	178	58	177	56	187	50	171	43	258	58	220	50	259	58	273	65	276	74	215	62	219	72	111	37	2544	57
COLORADO																										
Denver	148	49	150	48	259	70	303	76	291	65	323	72	354	78	291	69	274	73	270	78	203	68	194	66	4060	68
Grand Junction	184	60	167	53	207	56	296	75	336	76	329	74	372	82	308	73	290	78	269	77	155	51	144	49	3057	68
Pueblo	196	64	183	58	262	70	311	78	301	68	323	73	374	83	329	78	305	82	278	80	186	61	161	54	3209	72
CONNECTICUT																										
Hartford	146	50	162	53	193	52	216	54	194	43	240	53	360	78	293	68	279	75	192	56	119	40	123	43	2517	56
New Haven	174	59	189	61	215	58	232	58	210	47	250	55	331	72	261	61	264	71	189	55	129	43	128	45	2572	58
FLORIDA																										
Apalachicola	174	54	129	40	163	44	295	76	307	73	262	62	204	47	200	49	176	48	234	66	189	59	165	52	2498	56
Jacksonville	194	60	156	48	191	51	288	74	302	71	283	67	215	50	191	47	131	35	194	55	178	56	159	50	2482	56
Key West	194	58	267	81	304	81	278	73	308	74	272	66	203	49	235	58	209	56	198	55	222	68	199	60	2889	65
Miami	182	55	248	76	321	86	251	65	285	68	303	73	273	65	243	60	181	49	175	49	224	69	208	64	2894	65
Pensacola	182	56	128	40	196	53	291	75	349	82	349	83	308	72	272	66	244	66	270	76	159	50	150	48	2898	65
Tampa	188	57	261	80	299	80	333	87	356	86	345	84	247	59	256	63	231	63	244	69	186	57	202	62	3148	71
GEORGIA																										
Atlanta	121	38	124	39	204	55	301	77	345	80	359	83	293	67	296	71	254	68	254	72	133	42	106	34	2790	63
Augusta	163	51	139	44	225	61	299	77	352	82	369	86	298	68	304	73	205	55	262	74	146	47	147	48	2909	65
Macon	173	54	128	40	190	51	309	79	332	77	356	83	295	68	315	76	254	69	258	73	126	40	121	39	2857	64
Savannah	156	49	109	34	146	39	246	63	252	59	285	67	311	72	275	67	154	42	221	63	117	37	139	44	2411	54
IDAHO																										
Boise	161	56	167	55	193	52	208	52	288	63	326	71	409	88	355	82	291	78	247	72	126	43	130	46	2901	65
Pocatello	143	49	171	56	202	55	194	48	327	72	307	67	400	86	352	82	295	79	255	75	110	38	95	34	2851	64
ILLINOIS																										
Cairo	156	50	150	48	206	56	313	79	349	80	342	78	358	80	346	82	268	72	283	81	173	56	153	51	3097	69
Chicago	171	58	170	55	171	46	220	55	282	63	261	57	321	70	334	78	276	74	224	65	113	38	162	57	2705	61
Moline	165	56	139	45	224	61	256	64	282	63	260	57	327	71	333	78	272	73	219	64	92	31	148	52	2717	61
Peoria	158	53	178	57	203	55	269	67	296	66	275	61	296	65	330	78	264	70	223	65	133	45	151	52	2776	61
Springfield	156	52	170	55	186	50	290	73	321	72	298	67	316	70	343	81	237	64	220	58	95	32	181	62	2813	63
INDIANA																										
Evansville	119	39	133	42	185	50	273	69	312	71	350	79	329	73	363	86	267	72	238	68	143	47	104	35	2816	63
Fort Wayne	176	59	167	54	190	51	245	61	304	68	286	63	343	75	350	82	240	64	209	61	124	42	137	48	2771	62
Indianapolis	129	43	130	42	142	38	204	51	271	61	316	71	309	68	331	78	223	60	173	50	109	36	108	37	2445	55
Terre Haute	146	48	177	57	168	45	231	58	281	63	302	67	276	61	320	75	245	66	216	62	140	47	151	52	2653	59
IOWA																										
Burlington	140	47	145	47	221	60	274	69	305	68	291	64	332	73	336	79	277	74	233	68	110	37	146	51	2810	63
Charles City	179	61	172	56	244	66	253	63	259	57	242	53	315	68	280	65	280	77	264	77	103	35	150	53	2749	61
Des Moines	160	54	174	56	285	77	265	66	276	61	283	62	327	71	303	71	305	82	243	71	109	37	136	48	2866	64
Dubuque	179	61	159	52	227	61	284	71	294	65	314	69	393	85	336	78	292	78	242	70	80	27	173	61	2973	65
Sioux City	178	61	176	59	258	70	261	65	278	61	286	63	354	76	321	75	274	73	244	71	141	48	156	55	2927	66
KANSAS																										
Concordia	138	46	101	32	190	51	295	80	256	58	300	68	312	69	306	72	323	86	262	76	157	52	176	60	2816	64
Dodge City	247	81	167	53	226	61	295	74	287	65	270	61	326	73	287	68	324	87	271	78	161	53	171	58	3032	68
Topeka	190	63	113	36	209	56	208	52	314	71	306	69	336	74	331	78	302	81	260	75	147	49	131	45	2847	64
Wichita	191	62	135	43	188	51	270	68	301	69	255	58	299	67	292	69	320	86	250	72	175	57	181	61	2857	64
KENTUCKY																										
Louisville	112	37	140	45	189	51	232	59	275	62	363	82	317	70	333	79	233	62	186	54	145	48	126	43	2651	59
LOUISIANA																										
New Orleans	174	54	104	32	165	44	281	73	329	78	314	75	274	64	251	61	199	54	258	73	159	50	126	40	2634	58
Shreveport	148	46	102	32	217	58	305	78	318	74	374	87	361	83	358	87	311	84	267	76	165	52	166	53	3092	69
MAINE																										
Eastport	102	36	194	64	182	49	218	54	213	46	232	50	275	58	289	66	247	66	190	56	95	33	154	56	2391	53
Portland	153	53	216	71	192	52	226	56	124	27	238	51	357	76	308	71	285	76	200	59	99	34	162	58	2560	57

SUNSHINE, AMOUNT AND PERCENT

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Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible
MISSOURI																										
Columbia	198	65	189	60	217	58	294	74	333	75	257	58	253	56	288	68	281	75	263	76	158	52	133	45	2864	64
Kansas City	181	60	115	37	197	53	233	59	284	64	277	62	299	66	270	64	319	85	258	75	147	49	137	46	2717	60
St. Joseph	173	57	94	30	195	52	220	55	265	60	266	59	247	54	251	59	280	75	239	69	126	42	148	51	2504	55
St. Louis	190	62	165	53	192	52	285	72	301	68	299	67	323	71	344	81	283	76	248	72	151	50	148	50	2929	66
Springfield	148	48	123	39	146	39	256	65	295	67	310	70	356	79	320	76	314	84	247	71	161	53	135	45	2810	63
MONTANA																										
Billings	115	41	132	44	219	59	235	58	249	54	247	53	378	80	357	82	304	81	284	84	130	45	109	40	2759	62
Great Falls	166	60	184	62	245	66	297	73	285	61	280	59	372	77	388	88	304	81	274	81	87	31	151	57	3033	75
Havre	141	52	196	66	274	74	314	76	338	71	333	69	400	82	376	85	298	79	279	83	94	34	114	44	3157	68
Helena	151	54	150	50	199	54	223	55	249	54	225	48	357	75	331	76	276	73	261	77	81	29	137	51	2640	59
Kalispell	157	57	138	46	162	44	177	43	226	48	301	63	381	79	359	81	271	72	204	61	40	14	39	15	2455	55
Missoula	133	48	101	34	171	46	131	32	216	46	215	45	321	67	301	69	233	62	210	62	48	17	88	33	2168	48
NEBRASKA																										
Lincoln	170	57	133	43	229	61	263	66	320	71	309	68	362	79	328	77	304	81	254	74	126	42	134	46	2932	66
North Platte	195	65	191	62	243	65	297	74	299	67	247	55	365	80	306	72	313	84	262	76	145	49	139	48	3002	66
Omaha	171	57	165	53	236	64	263	66	285	63	308	68	341	74	316	74	285	76	240	70	95	32	120	42	2825	63
Valentine	203	70	190	62	263	71	309	77	320	70	314	68	395	85	358	83	292	78	285	83	145	50	167	59	3241	73
NEVADA																										
Ely	228	75	206	66	263	71	298	75	378	85	317	71	429	95	399	94	346	93	292	84	207	69	174	57	3537	79
Reno	239	79	166	53	209	56	219	55	267	60	289	64	421	93	404	95	340	91	277	80	242	80	130	44	3203	72
Winnemucca	203	68	178	58	193	52	168	42	227	51	268	59	419	91	407	95	298	80	239	69	148	50	127	44	2875	65
NEW HAMPSHIRE																										
Concord	117	40	157	51	196	53	197	49	117	26	201	44	310	67	253	59	251	67	189	55	103	35	103	37	2194	49
Mt. Washington	115	39	113	36	174	46	142	35	80	17	114	24	154	32	113	26	186	49	158	45	95	32	82	29	1526	34
NEW JERSEY																										
Atlantic City	176	58	179	57	212	57	255	64	266	60	228	51	307	68	267	63	249	67	184	53	186	62	166	57	2675	60
Trenton	152	51	152	49	190	51	207	52	196	44	204	45	287	63	237	56	210	56	168	49	137	46	119	41	2259	51
NEW MEXICO																										
Albuquerque	255	81	197	62	219	59	292	74	324	75	312	72	351	80	318	76	292	79	236	67	261	84	202	66	3259	73
Roswell	203	64	184	58	316	85	330	85	333	77	354	83	336	77	333	80	300	81	230	65	264	84	176	57	3359	75
NEW YORK																										
Albany	130	44	159	52	179	48	202	50	209	46	280	61	350	75	304	70	254	68	143	42	134	46	98	35	2442	53
Binghamton	109	37	162	53	166	45	156	39	166	37	273	60	328	71	268	62	206	55	165	48	138	47	123	43	2260	51
Buffalo	125	43	195	64	232	63	250	62	275	61	311	68	363	78	348	81	306	82	114	33	51	17	63	22	2633	59
Canton	144	50	181	60	203	55	229	57	249	54	269	58	320	68	282	65	252	67	154	45	100	35	82	30	2465	55
New York	159	53	156	50	200	54	194	48	218	48	202	45	314	69	251	59	257	69	191	56	173	58	161	56	2476	55
Oswego	54	19	125	41	182	49	209	52	220	48	280	61	334	71	299	69	218	58	140	41	77	27	48	17	2186	49
Rochester	120	41	174	57	215	58	239	59	251	55	319	71	366	78	275	64	249	66	168	49	94	32	74	26	2544	57
Syracuse	81	28	138	45	159	43	186	46	205	45	259	56	293	63	257	60	192	51	112	33	91	31	106	38	2079	47
NORTH CAROLINA																										
Asheville	138	44	124	39	218	59	312	79	339	78	331	76	276	62	245	59	209	56	227	65	145	47	154	51	2718	61
Charlotte	172	55	133	42	212	57	279	71	302	70	284	65	289	65	285	68	234	63	255	73	134	43	156	51	2735	61
Greensboro	141	45	127	40	209	56	268	68	278	64	282	65	278	63	274	65	198	53	232	66	113	37	141	47	2541	57
Hatteras	153	49	136	43	196	53	262	67	338	78	314	72	306	69	306	73	219	59	211	60	151	49	161	53	2753	62
Raleigh	131	42	124	39	204	55	284	72	287	66	286	66	267	60	271	65	180	48	186	53	115	37	102	34	2437	55
Wilmington	163	52	125	39	188	51	277	71	324	75	326	75	300	68	297	72	222	60	228	65	152	49	153	50	2755	61
NORTH DAKOTA																										
Bismarck	123	44	189	63	238	64	220	54	349	75	264	56	314	66	300	68	264	70	242	72	108	38	152	57	2763	62
Devils Lake	130	47	179	60	248	67	254	62	378	80	291	61	330	68	343	78	297	79	251	75	112	40	114	44	2927	65
Fargo	136	49	172	57	216	58	213	52	319	68	252	53	288	60	276	62	252	67	203	60	52	19	144	54	2523	56
Williston	139	51	177	59	249	67	292	71	369	78	342	71	407	84	384	87	321	85	269	80	109	39	150	57	3208	72
OHIO																										
Cincinnati	141	46	186	60	232	62	256	65	299	67	346	78	304	67	302	71	211	57	179	52	137	45	109	37	2702	61
Cleveland	127	43	166	54	192	52	220	55	291	65	297	66	296	64	302	71	181	48	125	36	92	31	73	26	2362	51
Columbus	147	49	170	55	182	49	232	58	273	61	323	72	316	69	341	80	259	69	184	53	141	47	121	42	2689	60
Dayton	149	50	178	57	201	54	236	59	300	67	319	71	321	70	343	81	232	62	171	50	129	43	107	37	2686	60
Sandusky	155	52	175	57	182	49	193	48	282	63	300	66	322	70	328	77	224	60	142	41	112	38	103	36	2518	55
Toledo	152	51	155	50	185	50	201	50	252	56	271	60	315	69	326	76	220	59	135	39	88	30	106	37	2406	54
OKLAHOMA																										
Oklahoma City	171	55	115	36	194	52	317	81	295	68	322	74	291	66	326	78	341	92	271	77	193	62	160	53	2996	62
Tulsa	154	49	104	33	173	47	193	49	247	57	216	49	214	48	258	62	323	87	237	68	190	61	172	57	2481	56
OREGON																										
Baker	154	54	145	48	202	55	201	50	210	46	302	65	343	73	369	85	320	85	266	78	133	46	101	37	2746	61
Portland	119	42	95	32	142	39	142	35	217	47	298	64	308	65	209	48	230	61	151	44	46	16	57	21	2014	45
Roseburg	73	25	84	27	110	30	98	24	177	39	257	56	345	74	230	53	215	57	109	32	35	12	31	11	1764	39
PENNSYLVANIA																										
Erie	58	20	124	40	162	44	167	42	185	41	216	47	249	54	266	62	138	37	123	36	62	21	43	15	1793	38
Harrisburg	188	63	195	63	218	59	214	54	238	53	280	62	291	64	260	61	199	53	181	52	139	47	154	53	2557	57
Philadelphia	161	54	174	56	203	55	201	51	212	48	230	51	292	64	249	59	243									

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YEAR 1948

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible
TEXAS (Cont'd)																										
Corpus Christi	132	40	108	33	185	50	271	70	265	63	370	89	366	86	318	78	268	73	207	58	184	57	189	58	2863	64
Dallas	147	46	101	32	228	61	324	83	303	71	381	89	364	83	372	90	335	90	257	73	217	69	172	55	3201	72
Del Rio	194	60	132	41	232	62	310	80	309	73	319	76	329	77	357	87	253	68	174	49	258	80	146	46	3013	68
El Paso	286	89	232	72	304	82	355	91	394	92	370	87	363	84	364	88	301	81	251	71	284	90	184	59	3688	83
Fort Worth	163	51	119	37	230	62	330	85	286	66	368	86	368	84	350	85	319	86	---	---	---	---	---	---	---	---
Galveston	142	44	63	19	161	43	272	70	293	69	358	85	338	79	332	81	263	71	257	72	157	48	130	41	2766	69
Houston	137	42	58	18	154	41	258	67	214	50	361	86	286	67	321	78	225	61	258	73	147	46	116	36	2535	57
Palestine	133	42	81	25	189	51	281	72	269	63	332	78	323	74	354	86	284	77	236	67	181	57	158	50	2821	63
Port Arthur	153	47	79	24	191	51	273	71	301	71	352	83	320	75	310	76	266	72	259	73	161	50	138	43	2803	63
San Antonio	152	47	97	30	187	50	279	72	287	68	290	69	285	66	315	77	249	67	204	57	223	69	160	50	2728	61
UTAH																										
Modena	224	73	148	47	189	51	252	64	357	81	342	78	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Salt Lake	163	55	147	47	206	56	192	48	303	68	315	70	385	84	362	85	301	80	249	72	171	57	132	46	2926	66
VERMONT																										
Burlington	83	29	138	45	167	45	155	38	154	34	212	46	283	60	236	54	204	54	123	36	118	41	54	20	1927	43
VIRGINIA																										
Cape Henry	128	42	150	48	217	59	257	65	323	74	320	73	319	71	292	69	282	76	240	69	189	62	149	50	2866	64
Lynchburg	146	48	153	49	207	56	256	65	254	58	293	66	298	67	298	71	208	56	226	65	127	42	137	46	2603	58
Norfolk	134	44	160	51	230	62	240	61	282	64	298	68	313	70	295	70	233	62	210	60	144	47	133	45	2672	60
Richmond	100	33	146	46	221	60	259	66	293	67	326	74	328	73	297	71	251	67	199	57	157	51	148	50	2725	61
Washington Nat'l. Airport	159	52	198	63	232	63	238	60	228	51	289	65	334	74	303	72	267	72	204	59	155	51	133	45	2740	60
WASHINGTON																										
North Head	139	49	97	32	130	35	127	31	179	38	212	45	219	46	133	30	222	59	157	46	88	31	89	33	1792	40
Seattle	77	28	100	34	125	34	117	29	177	38	229	48	218	45	91	21	216	57	134	40	61	22	67	25	1612	36
Spokane	124	45	129	43	245	66	243	59	252	54	339	71	378	78	333	76	272	72	197	58	77	28	68	26	2657	59
Tacoma	88	32	104	35	147	40	122	30	149	32	236	50	256	53	122	28	182	48	120	36	68	24	69	26	1663	37
Tatoosh	104	38	93	31	133	36	104	25	156	33	223	46	191	39	63	14	168	45	140	42	59	21	61	23	1495	33
Walla Walla	128	45	150	50	234	63	233	57	198	43	329	70	375	79	298	68	247	66	231	68	109	38	85	32	2617	58
WEST VIRGINIA																										
Elkins	117	38	149	48	168	45	216	54	226	51	285	64	289	64	283	67	208	56	147	43	138	46	112	33	2338	51
Parkersburg	124	41	130	42	189	51	249	63	255	57	264	59	263	58	314	74	222	60	154	44	130	43	98	33	2392	52
WISCONSIN																										
Green Bay	186	65	201	66	251	68	250	62	300	65	297	64	355	76	314	72	258	69	220	65	84	29	174	63	2890	65
La Crosse	164	57	177	58	233	63	241	60	300	65	282	61	356	76	322	74	289	77	231	68	81	28	157	57	2833	63
Madison	155	53	157	51	243	66	260	65	291	64	275	60	347	75	322	75	263	70	216	63	66	23	150	53	2745	61
Milwaukee	135	46	108	35	180	49	187	46	284	62	245	53	284	61	266	62	223	59	188	55	95	33	154	55	2349	53
WYOMING																										
Cheyenne	143	48	156	51	238	64	240	60	240	54	252	56	286	62	261	61	247	66	239	70	131	44	168	58	2601	58
Lander	179	61	239	78	269	73	286	71	309	68	297	65	372	80	325	76	290	77	258	75	146	50	166	59	3136	69
Sheridan	199	69	186	62	237	64	264	65	290	63	248	53	350	74	328	75	253	67	255	75	88	31	133	48	2831	62
PACIFIC AREA																										
Honolulu	177	52	231	69	246	66	266	70	296	73	291	72	290	70	256	64	280	76	252	70	193	58	216	64	2994	68
PUERTO RICO																										
San Juan	236	68	225	67	208	56	141	37	215	53	155	39	159	39	149	38	174	47	159	44	117	35	202	59	2140	48
ALASKA																										
Anchorage	72	36	194	74	247	68	372	84	224	41	281	49	216	38	244	50	147	38	32	10	87	40	40	23	2156	46
Fairbanks	52	32	200	81	293	80	254	55	373	64	279	43	239	39	158	31	74	19	42	14	65	35	31	25	2060	43
Juneau	25	11	90	33	131	36	251	58	133	25	234	43	157	29	181	38	93	24	15	5	15	6	44	22	1369	30
Nome	50	30	168	68	159	43	132	29	371	64	191	30	146	24	136	27	104	27	104	35	67	35	24	19	1652	36

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Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible
ALABAMA																										
Birmingham	79	25	92	30	188	51	206	53	258	60	206	48	210	48	181	44	206	55	129	37	230	73	123	40	2108	47
Mobile	136	42	118	38	204	55	218	56	324	76	257	61	198	46	253	62	208	56	174	49	257	81	130	41	2477	55
Montgomery	141	44	128	41	221	60	215	55	335	78	259	61	258	59	233	57	238	64	186	53	253	80	134	43	2601	58
ARIZONA																										
Phoenix	186	59	250	81	327	88	353	90	414	96	386	90	359	82	392	95	315	85	289	82	273	87	249	80	3793	85
Prescott	144	46	217	64	251	68	309	79	337	78	315	73	309	70	356	75	279	75	260	74	277	89	240	79	3294	77
Tucson	174	54	247	80	326	88	341	88	399	93	379	89	316	73	363	88	295	80	303	86	298	94	250	80	3691	83
Yuma	183	57	275	89	352	95	359	92	398	93	417	97	419	96	384	93	364	98	347	99	302	96	273	88	4073	91
ARKANSAS																										
Fort Smith	85	27	191	63	214	58	266	68	295	68	297	68	401	90	327	78	282	76	229	65	300	97	144	47	3041	67
Little Rock	59	19	152	50	173	47	200	51	288	66	238	55	283	64	272	65	224	60	156	45	250	80	120	39	2415	53
CALIFORNIA																										
Eureka	222	74	114	38	177	48	254	64	231	52	312	69	270	59	277	65	195	52	230	67	146	297	147	51	2575	57
Fresno	245	79	195	64	221	60	347	88	367	84	416	95	434	97	389	93	368	99	338	97	239	76	181	60	3740	84
Los Angeles	232	74	195	64	288	78	252	64	257	60	307	71	346	79	362	87	314	84	272	77	269	86	249	81	3343	75
Red Bluff	252	84	162	54	160	43	356	90	336	75	423	94	437	96	413	97	353	94	320	93	224	75	194	67	3630	80
Sacramento	249	82	158	51	202	54	341	86	332	75	418	94	446	99	389	92	356	95	327	94	207	68	165	56	3590	78
San Diego	162	51	180	58	285	77	208	53	240	56	259	60	263	60	287	70	249	67	252	71	248	79	225	72	2858	66
San Francisco	220	72	126	42	186	50	286	72	273	62	315	71	289	64	248	59	232	62	260	75	204	67	191	64	2830	63
COLORADO																										
Denver	192	64	234	78	223	60	241	60	245	55	258	58	321	70	335	79	266	71	233	67	242	81	225	77	3015	68
Grand Junction	163	54	193	64	190	51	282	71	263	59	319	71	325	72	337	79	284	76	235	68	256	85	179	61	3026	68
Pueblo	148	49	217	72	237	64	230	58	287	65	277	62	326	72	316	75	289	78	248	71	252	83	234	79	3061	69
CONNECTICUT																										
Hartford	105	35	182	61	240	65	270	67	306	68	374	82	328	71	276	64	234	63	200	58	118	40	155	54	2788	61
New Haven	135	45	177	60	236	64	258	65	299	66	353	78	300	65	276	65	250	67	213	62	156	53	169	59	2822	63
FLORIDA																										
Apalachicola	203	63	186	58	251	67	274	71	369	87	265	63	274	64	269	66	237	64	226	64	248	78	160	50	2962	66
Jacksonville	189	58	137	44	229	62	206	53	330	78	209	50	253	59	207	51	197	53	174	49	231	73	120	38	2482	56
Key West	245	73	221	70	277	74	284	74	333	80	255	62	249	60	263	65	253	69	264	74	229	70	201	61	3074	69
Miami	282	85	268	85	305	82	305	79	341	82	260	63	299	71	306	76	288	78	275	77	217	67	176	54	3322	75
Pensacola	156	48	144	46	241	65	259	67	355	84	264	63	251	58	313	76	246	66	244	69	263	82	156	49	2892	64
Tampa	225	61	187	60	301	81	219	57	346	83	238	58	226	54	227	56	176	48	222	62	259	80	196	61	2822	64
GEORGIA																										
Atlanta	113	36	137	44	215	58	215	55	285	66	206	48	200	46	181	44	224	60	152	43	223	71	136	44	2287	51
Augusta	170	54	174	57	252	68	247	63	348	81	305	71	320	73	274	66	---	---	---	---	---	---	---	---	---	---
Macon	142	45	143	46	213	57	220	56	325	76	260	61	254	58	244	59	253	68	---	---	---	75	157	51	---	---
Savannah	159	50	129	42	230	62	210	54	330	77	248	58	273	63	198	48	165	44	162	46	241	76	205	66	2550	57
IDAHO																										
Boise	200	69	129	44	198	53	318	79	290	64	413	90	432	93	377	87	322	86	254	74	184	63	89	32	3206	70
Pocatello	163	56	155	53	192	52	345	86	258	57	377	82	403	87	342	79	296	79	198	58	195	67	87	31	3011	66
ILLINOIS																										
Cairo	85	28	181	59	230	62	236	60	341	78	303	69	370	83	349	83	290	78	221	64	227	74	150	50	2983	67
Chicago	105	35	142	48	215	58	287	72	301	67	318	70	281	61	297	69	242	65	223	65	131	44	134	47	2676	60
Moline	108	36	143	48	178	48	280	70	288	64	319	70	355	77	328	77	240	64	210	61	139	47	132	46	2720	59
Peoria	103	34	143	48	228	62	264	66	302	67	287	64	302	66	334	78	251	67	204	59	161	54	129	44	2708	59
Springfield	114	38	168	56	214	58	259	65	334	75	345	75	347	76	353	83	276	74	211	61	199	66	123	42	2943	64
INDIANA																										
Evansville	57	19	137	45	206	56	206	52	336	76	270	61	324	72	281	67	274	73	187	54	228	75	145	49	2651	60
Fort Wayne	82	28	134	45	204	55	272	68	314	70	313	69	334	73	296	69	231	62	216	63	115	39	144	50	2655	58
Indianapolis	60	20	131	44	172	46	228	57	303	68	290	65	277	61	267	63	262	70	212	62	153	51	163	56	2518	55
Terre Haute	75	21	152	51	204	55	259	65	295	66	270	60	311	68	290	68	266	71	211	61	195	64	157	54	2685	59
IOWA																										
Burlington	111	37	157	53	182	49	272	69	317	71	340	75	348	76	344	81	253	68	228	66	185	62	152	52	2889	65
Charles City	127	44	151	51	146	39	314	78	247	54	316	69	334	72	319	74	247	66	196	57	138	47	122	43	2657	--
Des Moines	119	40	158	51	122	33	261	65	252	56	270	59	315	69	324	76	297	80	234	68	210	71	164	57	2726	60
Dubuque	129	44	162	55	171	46	309	77	298	66	333	72	334	72	353	82	247	66	224	65	146	50	130	46	2836	62
Sioux City	144	49	177	60	144	39	303	76	294	65	304	66	348	75	319	74	281	75	232	68	244	83	163	68	2953	66
KANSAS																										
Concordia	137	45	143	48	152	41	256	64	244	55	263	59	342	75	293	69	215	58	239	69	257	86	179	61	2720	61
Dodge City	136	44	126	42	179	48	252	64	282	64	307	70	373	83	348	83	251	67	280	81	287	94	220	74	3041	68
Topeka	104	34	145	48	158	43	220	55	250	56	271	61	304	67	330	78	215	58	202	58	256	85	195	66	2650	59
Wichita	114	37	156	52	186	50	232	59	218	50	270	61	310	69	327	78	241	65	245	71	285	93	197	66	2781	63
KENTUCKY																										
Louisville	62	20	143	47	206	56	218	55	337	81	296	67	331	74	280	67	248	67	176	51	180	59	150	51	2647	58
LOUISIANA																										
New Orleans	203	38	84	27	235	63	251	65	349	83	271	64	209	49	222	56	179	48	143	40	275	86	145	46	2566	55
Shreveport	89	28	130	42	194	52	177	45	307	72	288	67	286	66	302	73	284	76	156	44	283	90	139	45	2635	58
MAINE																										
Eastport	117	41	162	55	171	46	203	50	253	55	291	62	295	62	253	58	184	49	209	62	91	31	143	52	2372	52
Portland	122	42	181	61	248	67	250	62	291	64	370	80	319	68	300	70	212	56	225	66	123	42	171	62	2812	65
MARYLAND																										
Baltimore	103	34	159	53	220	59	231	58	255	57	289	65	274	61	259	61	260									

YEAR 1949

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SUNSHINE, AMOUNT AND PERCENT

YEAR 1949

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible	Hours	Percent of possible
TEXAS																										
Abilene	109	34	165	53	235	63	195	50	275	64	340	80	339	78	314	76	258	70	235	67	304	96	164	52	2933	65
Amarillo	134	43	194	64	246	66	273	70	282	65	333	76	331	75	331	80	258	69	255	73	284	92	212	70	3133	70
Austin	106	33	95	31	213	57	191	49	269	63	294	70	334	78	326	80	272	73	194	55	282	88	108	34	2684	59
Brownsville	63	19	55	17	82	22	155	40	322	77	287	70	298	71	285	71	180	49	166	46	247	76	79	24	2219	48
Corpus Christi	101	30	73	23	163	44	157	41	220	52	338	81	376	88	352	87	276	75	240	67	297	92	109	34	2702	60
Dallas	67	21	130	42	186	50	166	42	263	61	315	73	384	88	355	86	262	71	139	39	304	97	141	45	2712	60
Del Rio	97	30	96	31	194	52	189	49	244	27	302	77	312	73	304	74	278	75	225	63	289	90	101	32	2631	58
El Paso	154	48	250	81	317	85	308	79	396	93	369	87	309	71	318	77	261	70	273	77	296	94	235	75	3486	78
Galveston	90	28	102	33	160	43	150	39	255	60	361	86	309	72	326	80	259	70	158	45	276	86	90	28	2536	56
Houston	65	20	59	19	154	41	133	34	230	54	280	67	243	57	251	61	208	56	110	31	285	89	104	33	2122	47
Palestine	87	27	149	48	232	63	202	52	332	78	338	79	348	80	341	83	302	82	186	53	280	89	127	40	2924	64
Port Arthur	110	34	109	35	208	56	180	47	294	69	310	73	226	52	286	70	231	62	134	38	285	89	105	33	2478	55
San Antonio	91	28	91	29	202	54	174	45	247	58	288	69	307	72	316	78	267	72	189	53	276	86	100	31	2548	56
UTAH																										
Salt Lake	174	58	168	56	191	52	319	80	318	71	378	84	402	88	373	87	304	81	207	60	236	79	116	40	3186	70
VERMONT																										
Burlington	77	27	116	39	165	45	159	39	237	52	284	61	297	63	258	60	114	30	183	54	81	28	83	30	2054	44
VIRGINIA																										
Cape Henry	129	42	161	53	230	62	203	52	281	64	275	62	285	64	262	62	273	73	214	61	208	68	175	58	2696	60
Lynchburg	112	36	161	53	226	61	236	60	307	69	280	64	332	76	237	56	257	69	179	51	218	71	158	53	2703	59
Norfolk	136	44	181	60	264	71	238	60	332	76	297	68	339	76	262	62	257	69	200	57	209	68	160	54	2875	64
Richmond	107	35	190	63	241	65	254	64	335	76	298	68	314	70	219	52	254	68	188	54	206	68	171	57	2777	62
Washington Nat'l. Airport	100	33	155	51	223	60	206	52	269	61	271	61	266	59	256	60	241	65	164	47	161	53	167	57	2479	54
WASHINGTON																										
North Head	170	60	85	29	151	41	201	49	219	47	208	44	248	52	208	48	157	42	163	48	81	28	33	12	1924	42
Seattle	103	41	81	28	137	37	194	47	284	61	273	57	281	58	216	49	206	55	143	43	69	25	66	25	2053	44
Spokane	147	53	129	45	190	51	312	76	303	65	373	78	389	81	356	81	245	65	190	57	88	31	91	35	2813	60
Tacoma	137	49	94	33	162	44	232	57	307	66	323	68	314	65	243	55	205	54	157	46	70	25	49	19	2293	51
Tatoosh	155	57	84	29	141	38	151	37	261	55	231	48	205	42	156	35	151	40	149	44	34	12	35	14	1753	38
Walla Walla	144	51	98	34	203	55	275	68	300	65	358	76	368	77	351	80	203	54	197	58	101	35	46	17	2644	56
WEST VIRGINIA																										
Elkins	95	31	120	40	170	46	182	46	285	64	278	61	273	60	231	54	190	51	187	54	128	42	141	48	2280	50
Parkersburg	49	16	110	37	153	41	218	55	285	64	328	73	294	65	245	58	228	61	194	56	105	35	120	41	2329	50
WISCONSIN																										
Green Bay	116	40	155	53	179	48	300	74	297	65	350	75	341	73	346	80	245	65	225	66	127	44	136	50	2817	67
La Crosse	130	45	179	61	165	45	325	81	319	70	354	77	375	80	364	84	255	68	213	62	124	43	117	42	2920	63
Madison	110	15	158	54	174	47	306	76	286	63	347	74	334	72	343	80	225	60	225	66	110	38	124	44	2742	60
Milwaukee	101	35	139	47	181	49	304	75	297	65	345	75	317	68	316	73	193	51	194	57	99	34	94	33	2580	55
WYOMING																										
Cheyenne	151	51	197	66	209	56	257	64	235	52	261	58	351	77	333	78	275	73	252	73	258	87	196	68	2975	67
Lander	164	56	227	74	236	64	282	70	261	58	310	68	376	81	312	72	260	69	221	64	214	73	171	61	3034	68
Sheridan	146	51	163	56	210	57	283	70	262	57	281	60	471	73	290	67	263	70	179	53	201	70	148	54	2897	62
PACIFIC AREA																										
Honolulu	198	58	199	62	276	74	220	58	243	60	248	62	277	67	261	66	263	71	274	76	219	66	218	65	2896	65
PUERTO RICO																										
San Juan	183	53	196	61	221	59	276	73	243	60	282	71	285	70	253	64	131	36	160	44	202	60	157	45	2589	58
ALASKA																										
Anchorage	48	24	172	68	229	63	163	36	324	60	240	42	271	48	229	47	118	30	113	37	60	28	50	28	2017	43
Fairbanks	43	26	156	66	207	56	282	62	289	50	179	28	244	39	233	46	97	22	42	14	36	19	24	20	1832	38
Juneau	50	22	110	42	152	41	62	19	239	46	123	23	120	22	215	45	113	29	70	22	30	13	69	34	1353	29
Nome	40	24	74	31	148	39	308	64	229	39	274	43	102	16	50	10	90	23	89	30	28	14	21	14	1453	32

Table 13 gives the monthly amounts of sunshine and percentage of the possible, as derived from the automatic records made by an instrument designated the "thermometric recorder". This instrument does not record satisfactorily the duration of sunshine for about 1 hour after sunrise and for about 1 hour before sunset, and on this account it has been considered necessary to apply

to the record for these hours what has been designated as "twilight correction". The amount of this correction is found by noting the comparative clearness of the sky during the time that elapses between the hour of sunrise and the moment the instrument begins to record and between the time the instrument ceases to act and the hour of sunset.

Table 14

EXCESSIVE SHORT DURATION RAINFALL

Station and date		Maximum precipitation in inches (5 to 180 minutes)												
		5	10	15	20	30	45	60	80	100	120	150	180	
ALABAMA														
Birmingham (Municipal Airport)														
April 12, 1943	.49	.71	....	.88	1.02	1.09	1.13	1.14	1.14	1.14	1.15	1.15		
July 2, 1943	.30	.48	....	.66	.72	.88	.91	.93	.93	.93	.93	.93		
July 19-20, 1943	.47	.80	....	1.04	1.12	1.17	1.19	1.21	1.22	1.25	1.25	1.35		
April 18, 1944	.25	.45	.54	.74	.85	.90	1.00	1.14	1.17	1.42	....	1.68		
May 25, 1944	.36	.59	.82	.95	1.10	1.11	1.12	1.12	1.12	1.12	....	1.68		
June 5, 1944	.23	.44	.61	.75	.95	.97	.97	.97	.98	.99	....	1.01		
July 14, 1945	.31	.59	.75	.81	.94	.99	.99	1.01	1.01	1.23	....	1.27		
Aug. 22, 1945	.40	.70	.86	.98	1.18	1.23	1.23	1.23	1.23	1.23	....	1.23		
Jan. 31, 1946	.41	.46	.48	.49	.55	.70	.73	.74	.74	.75	....	.78		
Feb. 13, 1946	.48	.54	.55	.57	.59	.62	.63	.67	.71	.71	....	.72		
May 17, 1946	.35	.54	.61	.63	.70	.77	.84	.90	.91	.92	....	.92		
June 14, 1946	.44	.83	1.15	1.30	1.45	1.49	1.54	1.56	1.58	1.62	....	1.73		
July 3, 1946	.39	.56	.61	.63	.63	.63	.63	.63	.63	.63	....	.63		
July 13, 1946	.25	.44	.64	.85	.93	.95	.97	.97	.97	.98	....	.98		
Aug. 21, 1946	.49	.87	1.14	1.43	1.74	2.03	2.16	2.17	2.17	2.17	....	2.48		
Sept. 3, 1946	.44	.75	.82	.90	1.05	1.11	1.13	1.14	1.15	1.15	....	1.16		
Oct. 6, 1946	.34	.50	.60	.81	1.00	1.18	1.24	1.27	1.32	1.40	....	1.45		
Oct. 25, 1946	.23	.38	.56	.72	1.02	1.33	1.50	1.72	1.86	1.93	....	2.05		
April 25, 1947	.35	.51	.55	.55	.61	.65	.68	.69	.70	.70	....	.70		
Aug. 24, 1947	.69	1.04	1.24	1.39	1.74	2.30	2.44	2.46	2.47	2.47	....	2.48		
March 2, 1948	.45	.49	.52	.55	.59	.62	.65	.73	.80	.89	....	1.07		
June 15, 1948	.33	.61	.83	1.01	1.16	1.41	1.44	1.44	1.44	1.44	....	1.44		
July 8, 1948	.31	.54	.76	.96	1.22	1.45	1.47	1.48	1.48	1.48	....	1.50		
July 31, 1948	.35	.60	.72	.73	.73	.73	.74	.74	.74	.74	....	.74		
Aug. 2, 1948	.25	.47	.67	.72	.78	.84	.89	.92	.96	.96	....	.97		
Jan. 4, 1949	.25	.26	.27	.27	.36	.44	.44	.47	.56	.68	....	.81		
Jan. 5, 1949	.18	.24	.35	.42	.63	.91	1.13	1.45	1.62	1.77	....	2.10		
Feb. 27, 1949	.17	.22	.31	.42	.55	.75	.87	1.05	1.12	1.14	....	1.18		
March 9, 1949	.19	.28	.36	.40	.53	.60	.62	.64	.68	.73	....	.86		
March 30, 1949	.25	.46	.51	.53	.59	.65	.71	.82	.88	.95	....	1.02		
April 12, 1949	.20	.31	.36	.39	.49	.59	.67	.75	.92	1.09	....	1.12		
April 27, 1949	.15	.31	.38	.40	.48	.57	.65	.67	.70	.71	....	.72		
May 1, 1949	.31	.45	.52	.56	.61	.68	.72	.79	.85	.90	....	1.02		
Aug. 16, 1949	.35	.38	.42	.43	.45	.45	.45	.45	.45	.45	....	.45		
Aug. 19, 1949	.27	.39	.49	.57	.65	.74	.78	.81	.84	.85	....	.85		
Aug. 28, 1949	.47	.75	.86	.92	.98	1.00	1.01	1.01	1.02	1.03	....	1.04		
Sept. 16, 1949	.30	.45	.69	.75	.80	.80	.80	.80	.80	.80	....	.80		
Sept. 19, 1949	.37	.72	.94	1.03	1.05	1.16	1.19	1.19	1.20	1.20	....	1.20		
Oct. 30, 1949	.15	.26	.32	.40	.52	.62	.66	.74	.77	.77	....	.77		
Mobile														
April 9, 1943	.36	.69	....	1.02	1.16	1.38	1.54	1.63	1.70	1.94	1.97	1.98		
May 11, 1943	.31	.51	....	.86	.99	1.20	1.22	1.27	1.30	1.30	1.40	1.40		
June 20, 1943	.30	.53	....	.77	.91	.94	.94	.94	.94	.94	.94	.94		
June 23, 1943	.48	.73	....	1.34	1.65	1.80	1.84	1.92	1.95	1.95	1.96	1.96		
July 12, 1943	.27	.49	....	.77	.84	.84	.84	.84	.84	.89	.94	.94		
July 13, 1943	.55	.90	....	1.30	1.57	1.68	1.72	1.74	1.78	1.90	1.91	1.91		
Aug. 5, 1943	.31	.55	....	1.04	1.29	1.44	1.91	2.03	2.17	2.26	2.47	2.66		
Nov. 7, 1943	.26	.46	....	.82	1.07	1.38	1.87	2.30	2.47	2.78	3.22	3.64		
March 22, 1944	.24	.45	.61	.71	.82	1.18	1.19	1.28	1.34	1.40	....	1.59		
April 2, 1944	.33	.55	.60	.71	.84	.88	.92	.95	.95	.95	....	.95		
April 11, 1944	.36	.45	.60	.82	1.12	1.48	1.58	1.67	2.19	2.30	....	2.31		
April 19, 1944	.40	.69	.85	.94	1.07	1.27	1.39	1.45	1.50	1.55	....	1.72		
June 12, 1944	.53	.63	.69	1.02	1.15	1.23	1.32	1.33	1.35	1.35	....	1.38		
June 28, 1944	.25	.43	.55	.75	1.03	1.11	1.14	1.15	1.16	1.18	....	1.21		
June 30, 1944	.38	.61	.74	.78	1.22	1.29	1.31	1.32	1.32	1.32	....	1.32		
Sept. 10, 1944	.27	.36	.56	.70	.96	1.27	1.52	1.85	1.96	2.15	....	2.79		
Sept. 21, 1944	.33	.58	.69	.74	.80	.82	.84	.86	.86	.86	....	.86		
April 22, 1945	.47	.81	1.11	1.24	1.37	1.74	1.87	2.08	2.23	2.59	....	3.31		
June 18, 1945	.42	.75	.91	1.09	1.27	1.36	1.38	1.43	1.43	1.43	....	1.48		
July 12, 1945	.40	.79	1.11	1.41	1.91	1.99	2.17	2.19	2.23	2.27	....	2.28		
July 13, 1945	.43	.65	.66	.66	.66	.70	.70	.70	.70	.70	....	.72		
July 15, 1945	.32	.50	.55	.62	.78	.84	.86	.86	.87	.89	....	.98		
July 17, 1945	.40	.75	1.05	1.27	1.42	1.42	1.42	1.42	1.42	1.42	....	1.43		
July 18, 1945	.55	.91	1.12	1.27	1.50	1.73	1.75	1.78	1.79	1.80	....	1.83		
Aug. 17, 1945	.40	.73	.99	1.27	1.60	1.76	1.77	1.78	1.78	1.78	....	1.78		
Oct. 25, 1945	.34	.51	.60	.66	.78	.86	1.06	1.10	1.12	1.13	....	1.15		
Nov. 10, 1945	.38	.56	.59	.65	.69	.74	.76	.97	1.06	1.10	....	1.13		
Dec. 13, 1945	.31	.54	.59	.63	.70	.89	1.15	1.23	1.43	1.69	....	2.02		
Dec. 24-25, 1945	.35	.47	.52	.57	.92	1.04	1.14	1.15	1.15	1.15	....	1.19		
Jan. 5, 1946	.34	.59	.75	.84	.93	1.13	1.39	1.67	1.73	1.74	....	1.76		
Feb. 6, 1946	.38	.64	.77	.93	1.10	1.31	1.44	1.52	1.60	1.66	....	1.79		
March 16, 1946	.44	.63	.72	.88	1.18	1.71	2.12	2.76	3.08	3.22	....	3.22		
May 7, 1946	.57	.88	1.17	1.40	1.81	2.11	2.19	2.21	2.24	2.26	....	2.32		
May 13, 1946	.55	.69	.73	.77	.82	.84	.87	.89	.91	.91	....	.91		
June 28, 1946	.45	.72	1.06	1.40	1.70	1.91	2.53	2.80	2.81	2.82	....	2.82		
July 21, 1946	.23	.43	.68	.86	1.29	1.63	1.78	1.91	2.39	2.47	....	3.65		
Aug. 11, 1946	.40	.70	.97	1.15	1.40	1.63	1.81	1.85	1.85	1.85	....	1.88		
Sept. 10, 1946	.36	.53	.77	.88	1.02	1.25	1.46	1.50	1.53	1.54	....	1.80		
Sept. 22, 1946	.44	.52	.54	.56	.61	.65	.66	.67	.69	.69	....	.80		
Nov. 10, 1946	.34	.50	.61	.70	.77	.79	.80	.81	.81	.81	....	.83		
March 17, 1947	.29	.52	.64	.71	.75	.81	.99	.99	.99	1.02	....	1.29		
March 18, 1947	.43	.58	.67	.77	.87	1.15	1.35	1.56	1.80	1.97	....	2.67		
April 1, 1947	.80	1.26	1.37	1.42	1.46	1.52	1.59	1.66	1.70	1.71	....	1.74		
May 19, 1947	.38	.57	.70	.76	.84	.98	1.26	1.47	1.52	1.63	....	1.69		
May 20, 1947	.35	.55	.65	.73	.95	1.31	1.37	1.37	1.37	1.37	....	1.37		
June 19, 1947	.57	.98	1.32	1.65	2.09	2.17	2.19	2.22	2.23	2.23	....	2.25		
Aug. 13, 1947	.36	.66	.78	.80	.84	.89	.89	.89	.89	.89	....	.89		
Sept. 15,														

Table 14-Continued

EXCESSIVE SHORT DURATION RAINFALL

Station and date	Maximum precipitation in inches (5 to 180 minutes)											
	5	10	15	20	30	45	60	80	100	120	150	180
ARIZONA-Continued												
Tucson-Continued (Airport)												
Oct. 28, 1946	....	....	.38	....	.39	.39	.41	....	....	.42	....	.42
Aug. 8, 1947	....	....	.28	....	.56	....	.60	....	....	.72	....	....
July 24, 1948	.55	.93	1.17	1.34	1.58	1.77	1.82	1.84	1.84	1.85	....	1.87
Aug. 4, 1948	.21	.38	.46	.52	.60	.63	.64	.64	.64	.64	....	.64
Aug. 8, 1949	.33	.46	.59	.63	.67	.71	.86	.98	1.07	1.09	1.21	1.29
Yuma												
Aug. 15, 1943	.23	.46	....	.76	1.05	1.20	1.23	1.24	1.24	1.24	1.24	1.24
1944--None	....	....	....	....	....	....	....	....	....	....	....	....
Aug. 16, 1945	.26	.44	.67	.82	.95	.97	.98	.98	.98	.98	....	.98
1946 through 1949--	None	None	None	None	None	None	None	None	None	None	None	None
ARKANSAS												
+Fort Smith												
April 11, 1943	.36	.60	....	1.01	1.34	1.58	1.74	1.79	1.86	1.96	1.98	1.98
May 8, 1943	.31	.45	....	.59	.83	.98	1.51	1.79	1.94	2.01	2.09	2.14
May 15, 1943	.43	.78	....	1.02	1.07	1.11	1.14	1.22	1.27	1.30	1.30	1.30
June 17, 1943	.28	.48	....	.71	.76	.82	1.18	1.42	1.58	2.01	2.32	2.44
Oct. 12, 1943	.36	.60	....	.78	.84	1.19	1.27	1.35	1.43	1.48	1.52	1.54
April 10, 1944	.33	.53	.67	.72	.76	.80	.81	.84	.85	.85	....	.85
Aug. 8, 1944	.30	.57	.71	.83	.92	1.02	1.08	1.10	1.10	1.10	....	1.10
Aug. 26, 1944	.35	.57	.91	1.16	1.38	1.46	1.53	1.56	1.57	1.57	....	2.28
Oct. 1, 1944	.28	.52	.68	.74	.76	.79	.79	.79	.79	.79	....	1.67
Oct. 3, 1944	.27	.40	.48	.58	.87	1.20	1.49	1.61	1.61	1.62	....	2.02
March 11, 1945	.41	.71	.95	1.10	1.23	1.27	1.29	1.30	1.44	1.60	....	1.27
March 24, 1945	.36	.58	.67	.77	.83	.96	1.01	1.11	1.21	1.22	....	1.69
April 13-14, 1945	.39	.50	.85	1.04	1.26	1.43	1.46	1.51	1.54	1.58	....	4.67
June 9, 1945	.42	.70	.87	1.15	1.66	2.11	2.47	3.15	3.60	4.34	....	2.92
June 10, 1945	.41	.74	1.08	1.31	1.43	1.54	1.60	1.63	1.85	2.04	....	1.77
June 10, 1945	.58	.99	1.26	1.41	1.54	1.65	1.67	1.69	1.70	1.72	....	1.26
July 26, 1945	.34	.59	.85	1.00	1.18	1.23	1.24	1.24	1.24	1.24	....	2.42
Sept. 12, 1945	.31	.48	.62	.69	.82	.97	1.30	1.49	1.81	1.98	....	1.46
Sept. 25, 1945	.36	.75	.86	.90	.93	.96	1.02	1.15	1.29	1.39	....	1.23
May 2, 1946	.49	.74	.88	.93	.99	1.03	1.08	1.13	1.14	1.15	....	1.05
June 13, 1946	.40	.75	.86	.88	.89	.89	.89	.89	1.05	1.05	....	1.94
June 30, 1946	.25	.45	.62	.78	.90	.95	.98	1.25	1.29	1.73	....	.78
Oct. 17, 1946	.48	.59	.59	.59	.59	.65	.65	.65	.78	.78	....	1.84
Nov. 2, 1946	.25	.50	.65	.77	.86	1.20	1.35	1.45	1.49	1.60	....	2.60
Nov. 9, 1946	.45	.71	.77	.83	1.13	1.41	1.94	2.45	2.57	2.58	....	1.16
May 12, 1947	.41	.62	.75	.84	.88	1.05	1.12	1.16	1.16	1.16	....	1.71
Sept. 11, 1947	.55	.78	.83	.84	.88	1.20	1.24	1.32	1.51	1.61	....	1.00
May 2, 1948	.30	.57	.81	.92	.98	1.00	1.00	1.00	1.00	1.00	....	.81
Dec. 15, 1948	.27	.31	.65	.70	.78	.80	.81	.81	.81	.81	....	1.66
Jan. 23, 1949	.48	.77	.88	1.04	1.46	1.49	1.55	1.60	1.66	1.66	....	1.56
April 30, 1949	.21	.33	.43	.54	.82	.85	.87	1.11	1.35	1.42	....	.83
May 1, 1949	.30	.42	.42	.42	.45	.68	.80	.81	.83	.83	....	.88
May 18, 1949	.24	.35	.40	.49	.61	.67	.67	.67	.84	.87	....	.63
June 13, 1949	.18	.34	.44	.46	.47	.50	.55	.60	.60	.60	....	.40
July 12, 1949	.20	.36	.38	.39	.39	.40	.40	.40	.40	.40	....	.89
Sept. 7, 1949	.22	.43	.58	.71	.82	.88	.89	.89	.89	.89	....	.71
Sept. 12, 1949	.21	.30	.38	.43	.49	.51	.61	.68	.71	.71	....	.42
Sept. 18, 1949	.25	.33	.35	.36	.39	.42	.42	.42	.42	.42	....	.50
Nov. 11, 1949	.20	.34	.41	.43	.47	.50	.55	.65	.70	.71	....	.71
Little Rock (Adams Field Airport)												
June 23, 1943	.33	.54	....	.82	.91	.96	1.03	1.04	1.04	1.04	1.04	1.04
July 14, 1943	.35	.68	....	1.07	1.22	1.28	1.28	1.28	1.28	1.28	1.28	1.28
Sept. 6, 1943	.34	.56	....	.69	.72	.83	.90	.96	.98	1.04	1.15	1.23
Oct. 12-13, 1943	.28	.48	....	.77	.93	1.12	1.22	1.34	1.47	1.68	1.95	2.17
July 28, 1944	.39	.56	.68	.72	.74	.90	.94	1.12	1.19	1.40	....	1.91
Nov. 8, 1944	.40	.64	.76	.94	1.10	1.31	1.40	1.58	1.72	1.77	....	1.85
May 11, 1945	.27	.39	.57	.75	1.02	1.28	1.34	1.37	1.40	1.42	....	1.49
May 15, 1945	.31	.56	.62	.63	.83	.87	.91	.93	1.07	1.16	....	1.77
June 17, 1945	.31	.57	.71	.84	.99	1.24	1.43	1.61	1.72	1.85	....	2.08
July 26, 1945	.28	.45	.62	.68	.96	1.51	1.75	1.80	1.80	1.80	....	1.80
Sept. 25, 1945	.42	.78	1.08	1.21	1.38	1.53	1.56	1.57	1.58	1.59	....	1.64
April 15, 1946	.34	.63	.80	.88	.92	.95	.97	1.01	1.05	1.08	....	1.30
May 23, 1946	.29	.51	.70	.92	1.34	1.60	1.72	2.47	2.78	2.86	....	3.09
June 25, 1946	.49	.87	1.20	1.53	2.07	2.53	2.65	2.67	2.69	2.74	....	2.96
July 1, 1946	.25	.47	.62	.65	.69	.70	.70	.70	.70	.70	....	.90
Dec. 28, 1946	.29	.51	.57	.64	.76	.85	.87	.90	.90	.90	....	2.06
April 10, 1947	.43	.67	.78	.86	.93	.97	.98	.98	1.02	1.07	....	1.12
May 20, 1947	.42	.64	.83	.89	1.02	1.13	1.17	1.18	1.19	1.19	....	1.19
June 1, 1947	.34	.59	.87	1.12	1.66	1.87	2.05	2.53	2.54	2.54	....	2.60
June 23, 1947	.20	.38	.56	.70	.86	.93	.93	.96	.97	1.10	....	1.17
July 29, 1947	.23	.39	.56	.73	.85	.87	.87	.87	.87	....	....	.87
Sept. 20, 1947	.53	.81	.83	.87	.90	.90	.91	.94	.94	.94	....	.96
March 26, 1948	.32	.51	.62	.65	.74	.78	.79	.79	.79	.79	....	.79
Sept. 22, 1948	.34	.55	.72	.84	.90	.90	.91	.91	.91	....	....	.91
Nov. 4, 1948	.30	.41	.59	.73	.94	1.24	1.62	1.80	1.82	1.86	....	1.87
Dec. 16, 1948	.49	.57	.58	.58	.58	.58	.58	.58	.58	.58	....	.58
Jan. 24, 1949	.34	.54	.61	.71	.98	1.24	1.43	1.62	1.75	1.79	....	1.88
Feb. 14, 1949	.34	.55	.64	.80	1.24	1.26	1.26	1.30	1.31	1.32	....	1.33
March 26, 1949	.37	.57	.69	.79	1.14	1.62	1.69	1.74	1.78	1.87	....	1.94
June 9, 1949	.33	.57	.78	.93	1.04	1.07	1.11	1.14	1.16	1.18	....	1.22
June 14, 1949	.32	.37	.39	.56	.63	.74	.82	.93	.98	.98	....	.98
July 4, 1949	.42	.56	.57	.59	.59	.61	.61	.61	.61	.61	....	1.20
July 22, 1949	.25	.34	.45	.57	.58	.59	.59	.59	.60	.60	....	.60
Aug. 9, 1949	.50	.77	1.11	1.15	1.15	1.15	1.15	1.15	1.15	1.15	....	1.15
Aug. 19, 1949	.27	.51	.67	.75	.81	.86	.88	1.38	1.56	1.57	....	1.57
Sept. 18, 1949	.22	.35	.46	.62	.66	.66	.66	.67	.67	.67	....	.67
Oct. 21, 1949	.39	.54	.60	.65	.66	.67	.69	.70	.71	.75	....	.90

CALIFORNIA

Eureka												
1943 through 1946--	None											
Oct. 20, 1947	.13	.21	.27	.34	.49	.65	.82	.90	.90	.93	....	.94
1948 and 1949--None	....	....	....	....	....	....	....	....	....	....	....	....
Fresno												
1943 through 1945--	None											
May 26, 1946	.39	.52	.59	.68	.81	.87	.87	.89	.91	.91	....	.91
1947 through 1949--	None	....	....	....	....	....	....	....	....	....	....	....
Los Angeles												
March 3, 1943	.20	.25	....	.42	.63	.79	1.09	1.27	1.53	1.57	1.70	1.80
Feb. 20, 1944	.19	.26	.34	.43	.63	.79	.83	1.00	1.10	1.38	....	1.72

+ Data from airport beginning Sept. 26, 1945.

† Data through November 1949.

Station and date	Maximum precipitation in inches (5 to 180 minutes)											
	5	10	15	20	30	45	60	80	100	120	150	180
CALIFORNIA-Continued												
Los Angeles -Cont'd												
1945 through 1947--None												
March 24, 1948	.22	.33	.41	.47	.55	.62	.72	.86	.97	1.02	....	1.14
1949--None												
Redding (Benton Field Airport)												
March 6, 1943	.17	.28	....	.42	.59	.73	.81	.81	.82	.82	.84	1.03
June 21, 1943	.19	.30	....	.33	.38	.58	.65	.84	.85	.86	.86	.87
May 31, 1944	.28	.42	.48	.54	.60	.61	.93	1.01	1.05	1.08	....	1.17
Station at Redding, transferred to Red Bluff, California, August 9, 1944.												
Red Bluff (Bidwell Field)												
Nov. 3, 1944	.21	.38	.48	.49	.53	.56	.57	.58	.58	.59	....	.59
May 12, 1945	.29	.46	.58	.64	.77	.81	.83	.85	.86	.86	....	.86
Oct. 31, 1945	.28	.40	.48	.54	.60	.61	.62	.62	.62	.62	....	.62
1946 through 1949--None												
Sacramento												
1943 through 1945--None												
March 30, 1946	.17	.30	.39	.44	.46	.46	.46	.46	.48	.49	....	.49
1947 through 1949--None												
San Diego (Lindbergh Field)												
1943 through 1946--None												
Nov. 9, 1947	.14	.26	.36	.43	.49	.52	.52	.52	.52	.56	....	.59
Dec. 1, 1947	.31	.32	.33	.33	.34	.34	.39	.40	.42	.43	....	.65
Dec. 5, 1947	.19	.31	.38	.44	.50	.57	.59	.61	.63	.72	....	.76
1948 and 1949--None												
San Francisco												
1943 through 1946--None												
March 27, 1947	.22	.40	.51	.61	.76	.90	1.01	1.05	1.15	1.15	....	1.15
1948 and 1949--None												
↑ Santa Maria												
1943 No records available.												
1944 through 1949--None												
COLORADO												
Denver												
1943--None												
July 11, 1944	.22	.32	.36	.38	.40	.41	.45	.46	.46	.46	....	.51
Aug. 26, 1944	.21	.35	.22	.50	.60	.83	.87	.88	.88	.88	....	.88
July 19, 1945	.24	.47	.62	.77	.96	1.09	1.14	1.15	1.15	1.19	....	1.21
July 21, 1945	.23	.39	.43	.44	.45	.46	.46	.46	.47	.47	....	.47
Aug. 25, 1946	.25	.36	.41	.46	.47	.47	.48	.50	.51	....	....	.51
1947--None												
July 5, 1948	.19	.30	.37	.41	.43	.44	.44	.44	.44	.44	....	.44
May 15, 1949	.29	.33	.33	.34	.34	.35	.35	.35	.35	.37	.38	.39
July 11, 1949	.25	.40	.53	.59	.67	.68	.68	.68	.68	.68	....	.68
Grand Junction												
1943 through 1947--None												
Aug. 8, 1948	.16	.31	.40	.41	.48	.53	.67	.67	.70	.70	....	.89
1949--None												
Pueblo (Municipal Airport)												
June 10, 1943	.27	.35	....	.37	.38	.38	.38	.38	.39	.39	.39	.39
July 11, 1944	.45	.62	.67	.75	.87	.87	.89	.92	.92	....	....	.92
July 18, 1944	.43	.73	.84	.93	1.16	1.42	1.44	1.45	1.46	1.46	....	1.49
Aug. 5, 1944	.20	.33	.38	.38	.39	.39	.40	.40	.40	.40	....	.40
July 2, 1945	.33	.59	.76	.81	.84	1.00	1.25	1.31	1.31	1.31	....	1.31
July 10, 1945	.18	.32	.41	.49	.56	.60	.61	.61	.62	.62	....	.91
Aug. 6, 1945	.26	.48	.58	.69	.84	.87	.90	.95	1.00	1.02	....	1.05
Aug. 7, 1945	.45	.71	.84	1.03	1.17	1.19	1.20	1.22	1.22	1.22	....	1.23
April 23, 1946	.21	.29	.35	.43	.65	.70	.72	.72	.72	.72	....	.72
Aug. 13, 1946	.30	.41	.46	.48	.50	.63	.67	.67	.67	....	....	1.18
Aug. 26, 1946	.47	.81	1.15	1.51	1.92	2.24	2.29	2.31	2.31	2.31	....	2.31
May 15, 1947	.17	.33	.44	.48	.53	.55	.59	.66	.69	.70	....	.72
June 18-19, 1947	.15	.25	.35	.43	.50	.59	.63	.75	.78	.79	....	.86
Oct. 7, 1947	.34	.53	.65	.80	1.08	1.22	1.37	1.48	1.49	1.49	....	1.53
June 12, 1948	.40	.77	.84	.88	.98	1.18	1.23	1.25	1.25	1.25	....	1.25
June 19, 1948	.25	.31	.36	.37	.37	.37	.37	.37	.38	.38	....	.33
July 17, 1948	.21	.31	.34	.36	.38	.39	.40	.40	.40	.40	....	.40
Aug. 13, 1948	.27	.47	.61	.71	.83	.93	.97	.98	.98	.98	....	.98
May 15, 1949	.24	.47	.57	.63	.72	.74	.76	.82	.85	.92	.95	.97
June 12, 1949	.33	.58	.84	.89	.98	1.02	1.05	1.05	1.05	1.05	1.05	1.05
July 10, 1949	.16	.28	.36	.45	.70	.88	1.05	1.13	1.19	1.24	1.27	1.29
CONNECTICUT												
Hartford (Airport)												
May 18, 1943	.21	.32	....	.45	.49	.50	.55	.61	.63	.64	.71	.72
June 13, 1943	.59	.86	....	.88	.88	.88	.88	.88	.88	.88	.88	.88
July 13, 1943	.23	.34	....	.47	.59	.66	.68	.68	.68	.68	.68	.68
July 22, 1943	.22	.29	....	.51	.57	.73	.83	.91	.95	.95	.96	1.04
June 19, 1944	.21	.30	.35	.35	.36	.38	.38	.38	.40	.43	....	.44
July 10, 1944	.18	.30	.32	.33	.34	.35	.37	.39	.39	.39	....	.39
July 27, 1944	.16	.31	.41	.46	.51	.52	.52	.53	.53	.53	....	.68
July 17, 1944	.36	.59	.65	.66	.67	.71	.77	.83	.87	.89	....	.90
Sept. 13, 1944	.23	.39	.52	.60	.70	.91	1.09	1.16	1.20	1.21	....	1.23
Sept. 14, 1944	.21	.31	.42	.53	.73	1.03	1.33	1.73	2.13	2.47	....	3.56
June 21, 1945	.33	.45	.52	.62	.77	.93	.98	1.05	1.16	1.22	....	1.28
July 18, 1945	.28	.44	.57	.72	.82	.83	.84	.84	.87	.89	....	.91
Aug. 8, 1945	.21	.32	.44	.55	.60	.62	.62	.62	.62	.62	....	.63
July 9, 1946	.30	.46	.49	.51	.56	.58	.58	.59	.59	.59	....	.59
July 22, 1946	.24	.42	.59	.71	.76	.84	.88	.91	1.03	1.30	....	1.40
July 23, 1946	.34	.47	.50	.50	.51	.54	.56	.57	.59	.60	....	.71
Aug. 22-23, 1946	.17	.28	.38	.46	.61	.80	.98	1.19	1.20	1.20	....	1.21
June 24, 1947	.16	.28	.37	.44	.56	.63	.66	.70	.72	.75	....	.90
July 17, 1947	.24	.24	.30	.32	.46	.50	.72	.80	1.02	1.06	....	1.07
July 28, 1947	.37	.53	.55	.75	.78	.88	1.26	1.28	1.30	1.31	....	1.83
Aug. 16, 1947	.27	.41	.47	.57	.70	.75	.77	.81	.85	.86	....	.88
Aug. 20, 1947	.42	.65	.66	.66	.66	.67	.69	.70	.71	.72	....	.74

Table 14-Continued

EXCESSIVE SHORT DURATION RAINFALL

Station and date		Maximum precipitation in inches (5 to 180 minutes)												
		5	10	15	20	30	45	60	80	100	120	150	180	
CONNECTICUT-Continued														
Hartford-Continued (Airport)														
Aug. 26, 1947	.33	.56	.67	.73	.74	.75	.98	1.02	1.03	1.03	....	1.03	1.03	1.03
Sept. 2, 1947	.36	.54	.60	.62	.76	.82	.84	.88	.88	.96	....	.96	.96	.96
Nov. 8, 1947	.25	.31	.35	.38	.48	.58	.67	.81	1.02	1.13	....	1.29	1.29	1.29
June 8, 1948	.50	.68	.79	.91	.92	.94	1.10	1.16	1.17	1.18	....	1.19	1.19	1.19
July 5, 1948	.35	.49	.52	.54	.55	.56	.57	.57	.58	.58	....	.59	.59	.59
July 6, 1948	.15	.27	.34	.41	.45	.45	.45	.45	.45	.45	....	.45	.45	.45
July 18, 1948	.28	.32	.35	.36	.37	.37	.38	.38	.38	.38	....	.38	.38	.38
Aug. 13, 1948	.24	.45	.65	.81	.89	.96	.98	1.00	1.03	1.03	....	1.03	1.03	1.03
June 5, 1949	.28	.36	.37	.40	.43	.44	.44	.44	.44	.44	....	.44	.44	.44
July 20, 1949	.33	.56	.80	.94	1.08	1.22	1.27	1.30	1.30	1.30	....	1.30	1.30	1.30
Aug. 3, 1949	.27	.48	.64	.74	.91	1.05	1.10	1.15	1.19	1.22	....	1.22	1.22	1.22
Nov. 13-14, 1949	.26	.36	.41	.51	.64	.83	.85	.87	.90	.91	....	.92	.92	.92
+ New Haven														
June 13, 1943	.57	1.11	....	1.33	1.33	1.33	1.33	1.34	1.34	1.34	....	1.34	1.34	1.34
July 29, 1943	.32	.43	....	.53	.53	.54	.55	.55	.56	.84	....	.87	.87	.87
Aug. 14, 1943	.30	.45	....	.66	.68	.69	.71	.71	.71	.71	....	.71	.71	.71
Sept. 1, 1944	.24	.34	.34	.34	.36	.39	.40	.44	.47	.48	....	.54	.54	.54
Sept. 13, 1944	.22	.35	.55	.64	.79	.87	1.12	1.36	1.45	1.50	....	1.52	1.52	1.52
Sept. 14, 1944	.17	.27	.37	.47	.64	.92	1.19	1.55	1.87	2.19	....	3.07	3.07	3.07
Sept. 14, 1944	.22	.38	.43	.45	.51	.55	.72	.85	.86	1.01	....	1.10	1.10	1.10
Aug. 2, 1945	.23	.39	.58	.69	.83	.89	.94	.98	1.00	1.01	....	1.01	1.01	1.01
July 3, 1945	.30	.58	.78	.95	1.22	1.35	1.36	1.38	1.38	1.38	....	1.38	1.38	1.38
Sept. 29, 1945	.35	.57	.61	.63	.64	.65	.66	.66	.67	.67	....	.67	.67	.67
Nov. 19, 1945	.17	.29	.39	.49	.61	.80	.84	.89	.95	1.02	....	1.10	1.10	1.10
May 26, 1946	.23	.32	.44	.51	.67	.83	.93	1.04	1.34	1.41	....	1.55	1.55	1.55
July 2, 1946	.20	.33	.40	.46	.48	.63	.68	.76	.80	.82	....	.96	.96	.96
July 21, 1946	.34	.38	.40	.41	.41	.42	.42	.42	.43	.43	....	.43	.43	.43
Aug. 26-27, 1946	.27	.52	.67	.76	.87	1.27	1.45	1.51	1.60	1.73	....	1.87	1.87	1.87
June 6, 1947	.52	.49	.65	.71	.72	.72	.72	.73	.74	.74	....	.74	.74	.74
July 16, 1947	.26	.38	.47	.51	.55	.59	.62	.69	.76	.79	....	.95	.95	.95
Aug. 9, 1947	.22	.32	.46	.56	.75	.88	.91	.93	.96	1.01	....	1.01	1.01	1.01
Sept. 2, 1947	.25	.43	.49	.51	.68	.95	1.02	1.06	1.11	1.14	....	1.23	1.23	1.23
Sept. 16, 1947	.26	.33	.34	.34	.35	.36	.36	.36	.36	.36	....	.36	.36	.36
Nov. 8, 1947	.22	.26	.34	.45	.63	.75	.86	.98	1.01	1.09	....	1.22	1.22	1.22
April 1, 1948	.11	.21	.29	.39	.56	.70	.81	1.01	1.31	1.55	....	1.85	1.85	1.85
May 17, 1948	....	....	.52	....	.54	.58	.62	....	....	.69	....	.69	.69	.69
Nov. 10, 1948	.16	.31	.39	.44	.51	.62	.83	.93	.99	1.04	....	1.29	1.29	1.29
July 30-31, 1949	.29	.40	.44	.47	.50	.50	.51	.52	.52	.52	....	.52	.52	.52
WASHINGTON, D. C.														
May 12, 1943	.25	.37	....	.54	.66	.66	.66	.66	.66	.66	....	.68	.68	.68
May 21, 1943	.29	.32	....	.34	.35	.36	.37	.37	.37	.37	....	.37	.37	.37
Oct. 16, 1943	.24	.38	....	.56	.61	.62	.63	.63	.63	.63	....	.63	.63	.63
Nov. 8, 1943	.27	.42	....	.74	1.02	1.30	1.42	1.49	1.80	2.01	....	2.41	2.41	2.41
June 19, 1944	.22	.33	.44	.54	.73	.94	1.16	1.32	1.33	1.34	....	1.35	1.35	1.35
July 19, 1944	.20	.36	.41	.43	.45	.48	.49	.49	.52	.58	....	.67	.67	.67
Aug. 2, 1944	.37	.69	.94	1.16	1.48	1.77	2.18	2.63	2.88	3.25	....	.93	.93	.93
Sept. 13, 1944	.21	.39	.47	.56	.84	.86	.87	.87	.87	.88	....	.88	.88	.88
Sept. 21, 1944	.44	.70	.71	.72	.72	.72	.72	.72	.72	.72	....	.72	.72	.72
June 2, 1945	.33	.37	.42	.46	.49	.49	.60	.63	.64	.64	....	.64	.64	.64
June 10, 1945	.45	.75	.98	1.18	1.53	1.71	1.80	2.12	2.15	2.17	....	2.22	2.22	2.22
June 21, 1945	.29	.41	.46	.50	.54	.57	.58	.58	.58	.60	....	.62	.62	.62
July 2, 1945	.61	.87	1.03	1.11	1.16	1.23	1.24	1.26	1.31	1.31	....	1.33	1.33	1.33
July 9, 1945	.19	.37	.49	.54	.65	.66	.66	.66	.66	.66	....	.66	.66	.66
July 14, 1945	.24	.32	.38	.43	.44	.45	.46	.47	.47	.58	....	.82	.82	.82
July 22, 1945	.29	.52	.53	.53	.53	.53	.53	.53	.53	.53	....	.53	.53	.53
July 28, 1945	.14	.28	.36	.46	.58	.60	.65	.70	.89	.95	....	.98	.98	.98
July 31, 1945	.26	.31	.33	.33	.33	.33	.33	.34	.34	.59	....	.60	.60	.60
Sept. 29, 1945	.38	.66	.70	.70	.71	.71	.79	.84	.85	.85	....	.85	.85	.85
May 18, 1946	.55	.77	.81	.82	.83	.85	.92	1.00	1.02	1.04	....	1.04	1.04	1.04
May 27, 1946	.30	.54	.64	.69	.74	.78	.79	.79	.79	.79	....	.79	.79	.79
June 29, 1946	.19	.36	.47	.60	.65	.79	.87	.89	.90	.92	....	.93	.93	.93
July 20, 1946	.18	.26	.40	.47	.49	.50	.50	.50	.51	.52	....	.56	.56	.56
July 25, 1946	.24	.34	.39	.40	.46	.52	.52	.52	.52	.52	....	.52	.52	.52
Aug. 6, 1946	.39	.59	.83	1.10	1.51	1.59	1.69	1.75	1.85	1.89	....	1.90	1.90	1.90
Sept. 23, 1946	.33	.66	.87	1.17	1.41	1.58	1.62	1.72	1.75	1.75	....	1.76	1.76	1.76
April 30, 1947	.29	.34	.41	.44	.45	.76	.77	.79	.79	1.09	....	1.11	1.11	1.11
May 22, 1947	.16	.28	.41	.53	.62	.75	.93	.96	.97	.97	....	1.05	1.05	1.05
May 25, 1947	.14	.28	.40	.45	.49	.49	.50	.51	.51	.51	....	.51	.51	.51
June 7, 1947	.33	.43	.61	.72	.83	1.02	1.22	1.43	1.61	1.75	....	1.93	1.93	1.93
June 13, 1947	.14	.24	.32	.37	.54	.73	.86	.97	1.03	1.04	....	1.29	1.29	1.29
July 1, 1947	.28	.41	.43	.47	.48	.49	.49	.49	.49	.49	....	.61	.61	.61
July 7, 1947	.20	.33	.41	.44	.48	.48	.49	.49	.49	.49	....	.49	.49	.49
July 12, 1947	.30	.52	.71	.76	.78	.80	.81	.81	.81	.81	....	.81	.81	.81
Aug. 8, 1947	.18	.34	.42	.49	.78	.93	1.11	1.15	1.16	1.16	....	1.16	1.16	1.16
Aug. 26, 1947	.15	.29	.41	.48	.55	.60	.64	.69	.90	.93	....	.93	.93	.93
Sept. 6, 1947	.17	.33	.38	.38	.39	.39	.39	.40	.40	.40	....	.40	.40	.40
May 3, 1948	.23	.35	.48	.49	.59	.64	.68	.73	.75	.75	....	.80	.80	.80
May 26, 1948	.15	.23	.35	.40	.47	.55	.59	.61	.63	.64	....	.67	.67	.67
May 30, 1948	.11	.24	.32	.40	.54	.73	.89	1.00	1.05	1.10	....	1.18	1.18	1.18
June 19, 1948	.23	.39	.46	.49	.58	.76	.80	.86	.96	.97	....	1.10	1.10	1.10
July 14, 1948	.34	.53	.60	.61	.68	.92	1.08	1.45	1.49	1.53	....	1.59	1.59	1.59
Aug. 31, 1948	.21	.33	.45	.46	.48	.49	.56	.58	.59	.60	....	.70	.70	.70
Aug. 3, 1948	.44	.61	.61	.61	.68	.70	.70	.72	.74	....	....	.74	.74	.74
Aug. 11, 1948	.31	.53	.69	.77	.79	.80	.84	.87	.88	.89	....	1.05	1.05	1.05
Sept. 9, 1948	.22	.25	.33	.47	.53	.55	.56	.57	.57	.61	....	.62	.62	.62
Nov. 6, 1948	.23	.41	.51	.56	.57	.66	.72	.80	.92	.98	....	1.21	1.21	1.21
March 31, 1949	.22	.38	.46	.53	.55	.55	.55	.58	.64	.64	....	.67	.67	.67
May 2, 1949	.25	.49	.62	.71	.77	.83	.87	.95	1.04	1.08	....	1.11	1.11	1.11
July 14, 1949	.14	.23	.34	.45	.47	.55	.74	.86	.93	.98	....	1.07	1.07	1.07
Aug. 3, 1949	.27	.35	.36	.37	.37	.37	.38	.48	.49	.50	....	.57	.57	.57
Aug. 12, 1949	.24	.45	.64	.86	.97	1.11	1.22	1.23	1.25	1.25	....	1.27	1.27	1.27
Aug. 28, 1949	.32	.37	.40	.42	.45	.50	.53	.57	.60	.63	....	.70	.70	.70
Sept. 22, 1949	.15	.30	.35	.37	.39	.43	.45	.50	.55	.62	....	.68	.68	.68
FLORIDA														
Apalachicola														
March 6, 1943	.43	.68	....	.84	1.14	1.66	1.82	1.94	2.01	2.03	....	2.03	2.03	2.03
May 25, 1943	.33	.56	....	.86	.97	1.15	1.26	1.36	1.43	1.52	....	1.80	1.80	1.80
June 27, 1943	.32	.55	....	.9										

Table 14-Continued

EXCESSIVE SHORT DURATION RAINFALL

Station and date	Maximum precipitation in inches (5 to 180 minutes)													
	5	10	15	20	30	45	60	80	100	120	150	180		
FLORIDA-Continued														
Jacksonville-Cont'd														
Aug. 3, 1949	.32	.56	.77	.89	1.07	1.17	1.21	1.27	1.28	1.28	1.28	1.28		
Aug. 13, 1949	.28	.41	.43	.44	.44	.44	.44	.52	.71	.74	.75	.75		
Aug. 18, 1949	.21	.35	.39	.49	.54	.57	.57	.57	.57	.57	.57	.85		
Aug. 24, 1949	.18	.31	.39	.42	.45	.46	.46	.46	.46	.46	.46	.46		
Aug. 30, 1949	.33	.44	.47	.48	.49	.55	.60	.61	.62	.64	.65	.66		
Aug. 31, 1949	.24	.39	.52	.63	.79	1.05	1.15	1.18	1.20	1.38	1.52	1.61		
Sept. 9, 1949	.23	.34	.46	.53	.59	.60	.60	.60	.60	.60	.60	.60		
Sept. 21, 1949	.19	.32	.40	.48	.58	.61	.62	.62	.62	.62	.62	.62		
Sept. 24, 1949	.26	.35	.37	.37	.37	.38	.38	.38	.38	.38	.42	.42		
Sept. 25, 1949	.34	.60	.80	1.00	1.27	1.50	1.51	1.57	1.58	1.58	1.66	1.94		
Sept. 25, 1949	.17	.23	.30	.45	.47	.61	.61	.65	.66	.79	1.01	1.06		
Sept. 28, 1949	.30	.58	.82	1.10	1.33	1.34	1.35	1.37	1.40	1.42	1.52	1.60		
Key West														
Sept. 4, 1943	.33	.55	....	.89	.94	.95	.95	.95	.95	.95	.95	.95		
Oct. 1, 1943	.39	.67	....	.81	.83	.90	1.02	1.31	1.68	1.95	2.03	2.10		
Nov. 16, 1943	.30	.55	....	1.02	1.33	1.80	2.06	2.24	2.74	3.26	3.44	3.56		
May 24, 1944	.39	.62	.80	.94	.96	.97	.97	.97	.97	.97	.97	.97		
July 13, 1944	.35	.58	.76	.81	.86	.90	.92	.92	.92	.92	.92	.92		
Aug. 11, 1944	.28	.41	.61	.79	.90	1.30	1.45	1.62	1.65	1.66	1.66	1.67		
Sept. 22, 1944	.32	.48	.67	.81	1.06	1.17	1.30	1.32	1.33	1.34	1.34	1.34		
Oct. 18, 1944	.23	.42	.61	.72	.84	1.15	1.41	1.54	1.71	1.82	1.82	1.82		
June 21, 1945	.42	.53	.65	.71	.79	.87	.92	.99	1.05	1.11	1.11	1.24		
July 22, 1945	.42	.79	1.03	1.18	1.35	1.47	1.49	1.55	1.61	1.65	1.65	1.68		
Aug. 24, 1945	.38	.75	.93	.95	.95	.95	.95	.96	.96	.96	.96	.97		
Aug. 26, 1945	.42	.74	.91	.96	1.09	1.17	1.22	1.24	1.28	1.33	1.33	1.39		
Sept. 4, 1945	.26	.53	.75	.90	1.22	1.55	1.65	1.65	1.65	1.69	1.69	2.23		
Nov. 13, 1945	.33	.53	.66	.90	1.25	1.43	1.46	1.51	1.67	1.71	1.71	1.79		
May 23, 1946	.27	.50	.62	.64	.69	.73	.73	.73	.73	1.03	1.03	1.26		
June 12, 1946	.33	.59	.72	.88	1.09	1.40	1.51	1.62	1.90	2.01	2.01	2.14		
July 21, 1946	.38	.68	.80	.84	.92	.93	.94	.94	.94	.94	.94	.94		
July 26, 1946	.52	.94	1.17	1.37	1.48	1.72	1.78	1.79	1.79	1.79	1.79	1.79		
Sept. 29, 1946	.27	.48	.64	.71	.78	.78	.78	.78	.78	.78	.78	.78		
Feb. 13, 1947	.44	.77	1.07	1.32	1.60	1.74	1.87	1.96	1.97	1.98	1.98	2.00		
March 16, 1947	.29	.53	.70	.80	1.01	1.16	1.24	1.29	1.35	1.41	1.41	1.48		
May 29-30, 1947	.40	.65	.91	1.13	1.35	1.41	1.41	1.42	1.42	1.42	1.42	1.42		
July 2, 1947	.57	1.01	1.06	1.08	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09		
July 4, 1947	.46	.87	1.12	1.47	1.86	2.41	2.73	3.25	3.35	3.40	3.40	4.10		
July 4, 1947	.35	.56	.65	.67	.77	.86	1.12	1.63	1.69	1.77	1.77	1.84		
July 12, 1947	.44	.61	.80	1.08	1.43	1.67	1.72	1.72	1.72	1.72	1.72	1.72		
July 18, 1947	.33	.58	.77	.87	.89	.89	.89	.89	.89	.89	.89	.89		
Sept. 19, 1947	.44	.71	.86	.87	.87	.90	.90	.90	.90	.90	.90	.90		
Oct. 2, 1947	.33	.58	.79	.96	1.15	1.52	1.87	2.03	2.09	2.14	2.14	2.21		
April 4, 1948	.25	.47	.62	.78	1.12	1.36	1.66	1.95	2.22	2.32	2.32	2.43		
April 26, 1948	.25	.48	.64	.86	.96	1.16	1.28	1.35	1.37	1.39	1.39	1.42		
April 26, 1948	.22	.41	.63	.81	1.09	1.20	1.25	1.30	1.36	1.40	1.40	1.55		
April 27, 1948	.44	.56	.59	.59	.59	.59	.59	.59	.59	.59	.59	.59		
July 23, 1948	.39	.69	.89	1.15	1.47	1.48	1.48	1.49	1.49	1.50	1.50	1.54		
Aug. 28, 1948	.44	.50	.50	.51	.51	.51	.51	.51	.51	.51	.51	.52		
Sept. 7, 1948	.35	.61	.92	1.14	1.18	1.31	1.32	1.32	1.32	1.32	1.32	1.47		
Sept. 16, 1948	.32	.55	.69	.85	1.02	1.13	1.17	1.19	1.20	1.20	1.20	1.23		
Sept. 20, 1948	.28	.47	.64	.64	.64	.64	.64	.64	.64	.64	.64	.64		
Oct. 5, 1948	.21	.32	.49	.64	.94	1.17	1.15	1.25	2.22	2.36	2.36	2.64		
Dec. 11, 1948	.33	.48	.60	.76	1.05	1.09	1.10	1.10	1.11	1.11	1.11	1.21		
Aug. 6, 1949	.20	.35	.40	.43	.44	.44	.45	.49	.66	.66	.70	.70		
Aug. 19, 1949	.13	.23	.35	.47	.61	.71	.72	.72	.72	.72	.72	.72		
Aug. 26-27, 1949	.34	.47	.55	.55	.55	.55	.56	.57	.57	.65	1.26	1.29		
Sept. 1, 1949	.26	.37	.47	.47	.47	.47	.47	.50	.73	.73	.73	.73		
Sept. 18, 1949	.33	.40	.46	.46	.48	.61	.72	.72	.72	.73	.73	.88		
Sept. 24, 1949	.17	.30	.34	.36	.36	.36	.36	.36	.36	.36	.36	.36		
Sept. 24, 1949	.32	.57	.69	.81	.96	1.26	1.26	1.26	1.26	1.26	1.26	1.26		
Oct. 7, 1949	.23	.36	.45	.51	.56	.56	.57	.57	.57	.57	.57	.57		
Nov. 9, 1949	.28	.45	.67	.83	.91	.98	1.06	1.11	1.15	1.23	1.29	1.36		
Miami														
Jan. 29, 1943	.44	.67	....	1.35	1.63	2.10	2.56	2.89	3.04	3.06	3.07	3.07		
March 27, 1943	.46	.76	....	1.08	1.34	1.45	1.58	1.71	1.75	1.76	1.77	1.97		
May 26, 1943	.35	.66	....	.85	.92	.96	1.04	1.08	1.09	1.14	1.21	1.40		
June 25, 1943	.40	.65	....	.97	1.31	1.66	1.83	1.97	2.22	2.71	3.42	3.57		
July 8, 1943	.26	.50	....	.84	1.06	1.16	1.25	1.31	1.35	1.41	1.51	1.57		
Aug. 22, 1943	.43	.79	....	1.33	1.55	1.56	1.57	1.58	1.58	1.58	1.58	1.58		
Sept. 12, 1943	.35	.50	....	.54	.56	.58	.58	.62	1.07	1.10	1.11	1.12		
Sept. 13, 1943	.31	.59	....	1.07	1.32	1.47	1.57	1.76	1.76	1.76	1.76	1.76		
May 6, 1944	.67	.92	1.15	1.23	1.24	1.25	1.25	1.25	1.25	1.25	1.25	1.25		
May 12, 1944	.25	.48	.63	.68	.71	.71	.72	.72	.72	.72	.72	.72		
June 7, 1944	.34	.59	.82	.97	1.00	1.01	1.02	1.03	1.03	1.03	1.03	1.03		
Dec. 22, 1944	.35	.48	.61	.76	.94	1.13	1.16	1.17	1.20	1.30	1.30	1.55		
April 29, 1945	.27	.35	.45	.60	.90	1.30	1.69	1.90	1.93	1.96	1.96	1.99		
Dec. 22, 1945	.35	.55	.78	.85	1.04	1.05	1.23	1.56	1.64	1.65	1.65	1.65		
May 25, 1946	.36	.64	.77	.81	.82	.82	.83	.84	.84	.84	.84	.84		
May 28, 1946	.34	.50	.66	.88	1.10	1.26	1.39	1.59	1.62	1.63	1.63	1.84		
July 4, 1946	.34	.62	.85	.94	1.16	1.27	1.28	1.28	1.28	1.28	1.28	1.28		
Aug. 13, 1946	.28	.50	.57	.58	.58	.60	.67	.67	.67	.67	.67	.67		
Sept. 5, 1946	.27	.53	.73	.84	.88	.88	.89	.89	.89	.89	.89	.89		
Nov. 11, 1946	.24	.48	.64	.87	1.17	1.28	1.36	1.74	2.16	2.41	2.41	2.77		
April 17, 1947	.24	.47	.64	.77	.95	1.24	1.59	1.89	1.97	2.04	2.04	2.84		
June 10, 1947	.32	.50	.57	.61	.73	.77	.88	1.04	1.20	1.29	1.29	1.46		
July 7, 1947	.35	.62	.84	1.04	1.48	1.75	1.80	1.80	1.80	1.80	1.80	1.80		
Aug. 7, 1947	.41	.56	.64	.89	1.20	1.69	2.14	2.74	3.05	3.49	3.49	4.10		
Sept. 27, 1947	.36	.62	.86	1.07	1.54	1.99	2.16	2.39	2.41	2.41	2.41	2.42		
Oct. 1, 1947	.34	.55	.77	.98	1.27	1.58	1.70	1.73	1.73	1.73	1.73	1.73		
Oct. 11, 1947	.69	1.32	1.89	2.19	2.92	3.41	3.60	3.72	3.76	3.77	3.77	3.77		
Jan. 13, 1948	.26	.37	.45	.60	.92	1.24	1.48	1.53	1.61	1.65	1.65	2.06		
April 27, 1948	.50	.90	.99	1.02	1.08	1.10	1.11	1.13	1.14	1.14	1.14	1.16		
May 12, 1948	.22	.45	.64	.77	.95	1.12	1.41	1.62	1.67	1.68	1.68	1.72		
May 30, 1948	.45	.70	.93	1.10	1.36	1								

EXCESSIVE SHORT DURATION RAINFALL

Table 14--Continued

Maximum precipitation in inches (5 to 180 minutes)														Maximum precipitation in inches (5 to 180 minutes)													
Station and date	5	10	15	20	30	45	60	80	100	120	150	180	Station and date	5	10	15	20	30	45	60	80	100	120	150	180		
FLORIDA--Continued														GEORGIA--Continued													
Tampa--Continued														Augusta--Continued													
Jan. 7, 1945	.23	.40	.57	.70	.93	1.28	1.54	1.79	1.97	2.18	....	2.58	Aug. 5, 1944	.26	.44	.67	.81	1.00	1.07	1.08	1.08	1.08	....	1.09	
June 18, 1945	.27	.52	.68	.79	.88	.94	.98	.99	1.02	1.07	....	1.12	April 23, 1945	.47	.61	.76	.84	.87	.89	.90	.90	.90	....	.90
June 20, 1945	.48	.92	1.40	1.77	2.63	3.53	3.77	4.29	4.48	4.49	....	4.56	June 17, 1945	.33	.50	.50	.51	.52	.52	.52	.52	.52	....	.52
June 23, 1945	.49	.92	1.24	1.54	2.23	3.17	3.83	4.51	4.71	4.87	....	5.10	July 23, 1945	.38	.66	.80	.90	1.26	1.45	1.48	1.48	1.49	....	1.49	
July 23, 1945	.25	.44	.63	.81	1.09	1.20	1.24	1.28	1.33	1.37	....	1.42	Aug. 22, 1945	.32	.57	.74	.93	1.24	1.35	1.36	1.36	1.36	....	1.36	
July 24, 1945	.32	.56	.82	.97	1.12	1.49	1.56	1.57	1.59	1.61	....	1.70	July 3, 1946	.42	.70	.88	1.00	1.06	1.13	1.25	1.37	1.43	....	1.73	
Aug. 14, 1945	.32	.51	.60	.68	.74	.75	.78	.79	.79	.79	....	.80	Oct. 25, 1946	.35	.57	.68	.76	.80	.90	.96	1.01	1.04	....	1.06
Aug. 20, 1945	.48	.76	.91	1.05	1.25	1.39	1.43	1.87	1.96	1.98	....	2.02	Aug. 2, 1947	.25	.46	.65	.79	.83	.84	.84	.85	.85	....	.85
Sept. 2, 1945	.36	.63	.65	.66	.66	.66	.66	.66	.67	.67	....	.67	Aug. 10, 1947	.36	.52	.58	.61	.63	.63	.63	.63	.63	....	.63
Sept. 13, 1945	.31	.55	.76	.91	.96	.99	1.19	1.23	1.23	1.24	....	1.37	Aug. 26, 1947	.30	.51	.76	.90	1.15	1.30	1.36	1.38	1.39	....	1.44	
Feb. 28, 1946	.30	.55	.76	.97	1.29	1.51	1.76	2.03	2.46	2.60	....	2.75	Sept. 15, 1947	.23	.37	.54	.70	.86	1.03	1.40	1.63	1.67	....	1.81	
May 15, 1946	.33	.68	.88	.95	.99	1.03	1.03	1.04	1.09	1.13	....	1.30	May 4, 1948	.37	.56	.58	.60	.63	.68	.69	.71	.71	....	.71
June 10, 1946	.38	.60	.89	1.10	1.41	1.47	1.48	1.48	1.49	1.57	....	1.61	May 25, 1948	.53	.86	1.05	1.15	1.28	1.37	1.38	1.52	1.64	....	1.73	
June 11, 1946	.52	.67	.78	.82	.84	.86	.87	.89	.90	.91	....	.94	Aug. 4, 1948	.38	.48	.61	.73	.89	.91	.94	.94	.95	....	.95
June 27, 1946	.57	.91	1.35	1.61	1.89	2.06	2.11	2.15	2.19	2.21	....	2.22	Aug. 31, 1948	.34	.54	.74	.88	1.25	1.69	1.83	1.87	1.88	....	1.89	
July 19, 1946	.54	.95	1.25	1.50	1.97	2.44	3.00	3.42	3.74	3.93	4.53	Sept. 6, 1948	.37	.58	.74	.94	1.43	2.04	2.47	3.11	3.62	3.98	4.46		
July 28, 1946	.29	.54	.80	.97	1.39	1.52	1.56	1.79	1.83	1.84	1.95	Feb. 9, 1949	.25	.44	.56	.66	.73	.81	.84	.89	1.07	1.23	1.29	1.34		
Aug. 29, 1946	.47	.53	.63	.85	1.00	1.02	1.04	1.08	1.11	1.16	....	1.26	June 8, 1949	.29	.56	.64	.65	.67	.69	.70	.70	.70	....	.71
Aug. 15, 1946	.37	.64	.84	1.08	1.48	1.77	1.93	2.19	2.24	2.27	2.28	June 8, 1949	.37	.62	.76	.92	1.10	1.30	1.36	1.39	1.41	1.45	1.49	1.50		
Aug. 27, 1946	.51	.70	.86	.91	.95	.96	.96	.96	.97	.98	....	1.22	June 14, 1949	.22	.38	.49	.50	.51	.51	.51	.51	.51	....	.56
Aug. 30, 1946	.34	.59	.78	.92	.98	.99	.99	.99	.99	.99	....	.99	June 25, 1949	.35	.61	.72	.73	.73	.74	.74	.74	.74	....	.88
Sept. 7, 1946	.31	.48	.66	.70	.74	.84	.86	.87	.88	.8989	July 13, 1949	.24	.45	.63	.74	.81	.90	.94	.95	.97	.9899		
Sept. 15, 1946	.36	.66	.71	.72	.72	.72	.72	.72	.72	.7272	Aug. 9, 1949	.29	.43	.64	.79	.88	.92	.94	1.00	1.06	1.10	1.13	1.13		
Oct. 1, 1946	.42	.69	.82	.91	1.34	2.06	2.36	2.36	2.36	2.36	2.36	Oct. 7, 1949	.15	.25	.36	.46	.50	.53	.56	.60	.60	.61	.64	.66		
March 19, 1947	.35	.67	.75	.81	.89	.95	1.01	1.08	1.14	1.21	....	1.39	Oct. 8, 1949	.25	.25	.25	.26	.27	.27	.27	.27	.27	....	.27
April 12, 1947	.63	.99	1.25	1.28	1.41	1.43	1.44	1.44	1.44	1.44	....	1.44	Oct. 25, 1949	.23	.32	.37	.39	.40	.44	.49	.52	.52	....	.52
April 24, 1947	.27	.52	.67	.78	.97	1.11	1.18	1.22	1.23	1.24	1.25	Oct. 26, 1949	.26	.52	.55	.57	.60	.65	.70	.73	.77	.79	.79	.79		
June 20, 1947	.46	.74	1.00	1.22	1.90	2.09	2.12	2.13	2.13	2.13	2.13	Nov. 29, 1949	.34	.35	.35	.35	.35	.40	.44	.45	.45	.4545		
July 3, 1947	.55	.77	.80	.99	1.16	1.40	1.41	1.41	1.41	1.41	1.41															
July 8, 1947	.39	.71	.91	1.09	1.36	1.86	2.09	2.20	2.20	2.24	2.53															
July 12, 1947	.33	.66	.85	.99	1.23	1.48	1.55	1.57	1.57	1.57	1.58	* Macon														
Aug. 20, 1947	.29	.46	.62	.63	.63	.65	.66	.66	.68	.6874	Jan. 17, 1943	.43	.7390	1.19	1.61	2.09	2.22	2.30	2.37	2.44	2.72		
Aug. 31, 1947	.33	.60	.73	.78	.92	.97	.97	.97	.97	.9797	Jan. 19, 1943	.30	.4867	.76	.78	.79	.79	.80	.85	.89	.91		
Sept. 14, 1947	.29	.55	.72	.82	1.02	1.07	1.09	1.10	1.12	1.12	1.13	March 6, 1944	.37	.52	.53	.54	.55	.57	.57	.60	.92	1.08	1.07		
Oct. 23, 1947	.38	.57	.64	.66	.67	.69	.74	.78	.78	.7878	Sept. 21, 1944	.32	.61	.86	.91	.99	1.03	1.04	1.06	1.07	1.08	1.09		
Nov. 1, 1947	.39	.51	.55	.59	.61	.63	.63	.63	.63	.6363	April 24-25, 1945	.48	.56	.59	.59	.60	.61	.62	.62	.62	.6263		
Jan. 17, 1948	.30	.39	.64	.73	.86	.95	1.00	1.05	1.08	1.18	1.41	April 25, 1945	.53	.88	1.04	1.12	1.18	1.22	1.26	1.31	1.36	1.38	1.39		
Jan. 24, 1948	.32	.54	.70	.89	1.12	1.35	1.47	1.57	1.66	1.74	....	2.05	June 6, 1945	.42	.76	1.03	1.19	1.22	1.27	1.29	1.29	1.29	....	1.29	
April 10, 1948	.24	.42	.54	.69	.90	1.02	1.33	1.52	1.60	1.61	....	1.61	June 6, 1945	.42	.76	1.03	1.19	1.22	1.27	1.29	1.29	1.29	....	1.29	
June 13, 1948	.34	.66	.84	.90	.95	.97	.99	.99	.99	.99	....	1.00	June 6, 1945	.42	.76	1.03	1.19	1.22	1.27	1.29	1.29	1.29	....	1.29	
June 28, 1948	.34	.56	.72	1.03	1.32	1.34	1.35	1.35	1.35	1.35	....	1.36	July 3, 1945	.35	.51	.65	.71	.72	.75	.75	.75	.75	....	.82
July 4, 1948	.32	.62	.73	.79	.87	.97	1.07	1.35	1.47	1.50	....	1.64	July 3, 1945	.35	.51	.65	.71	.72	.75	.75	.75	.75	....	.82
July 29, 1948	.43	.72	.85	.95	1.04	1.11	1.13	1.16	1.19	1.25	....	1.32	July 23, 1945	.30	.40	.63	.84	.89	.96	.97	.97	.97	....	.97
July 30, 1948	.50	.75	.86	.96	.98	.98	.98	.98	1.49	1.79	....	1.85	July 24, 1945	.34	.54	.66	.82	.96	.97	.98	.98	.98	....	1.00	
Aug. 12, 1948	.34	.53	.61	.65	.65	.71	.71	.71	.71	.71	....	.96	Aug. 24, 1945	.34	.61	.82	.93	1.10	1.28	1.42	1.46	1.46	....	1.47
May 11, 1949	.32	.62	.86	.95	1.02	1.04	1.04	1.04	1.04	1.04	1.04	Jan. 5, 1946	.34	.40	.49	.53	.56	.60	.77	.81	.87	.9194		
June 1, 1949	.35	.47	.62	.63	.63	.63	.63	.63	.63	.63	....	1.07	March 16, 1946													

EXCESSIVE SHORT DURATION RAINFALL

Table 14-Continued

Station and date	Maximum precipitation in inches (5 to 180 minutes)												
	5	10	15	20	30	45	60	80	100	120	150	180	
GEORGIA-Continued													
Savannah-Continued (Hunter Field-Airport)													
Aug. 2, 1949	.30	.45	.52	.61	.64	.64	.65	.66	.66	.66	.66	.66	.66
Aug. 20, 1949	.30	.56	.74	.82	.84	.85	.96	.97	.98	.98	.98	.98	.98
Aug. 21, 1949	.56	.94	1.21	1.42	1.70	1.86	2.05	3.09	3.22	3.25	3.25	3.25	3.25
Aug. 28, 1949	.24	.38	.42	.49	.66	.93	1.09	1.29	1.50	1.65	1.79	1.92	1.92
Sept. 1, 1949	.19	.31	.37	.49	.62	.67	.68	.69	.69	.69	.69	.69	.69
Sept. 4, 1949	.34	.43	.48	.54	.55	.55	.55	.55	.55	.55	.55	.55	.55
Sept. 16, 1949	.21	.38	.51	.61	.75	.89	1.11	1.35	1.62	1.63	1.63	1.63	1.63
IDAHO													
Boise (Municipal Airport)													
1943 through 1949---	None												
Pocatello (Municipal Airport)													
1943--None													
June 12, 1944	.25	.30	.31	.32	.35	.36	.37	.37	.38	.39	....	.39	.39
July 20, 1944	.23	.45	.61	.70	.79	.89	.92	.96	.97	.97	....	.97	.97
May 20, 1945	....	....	.35	....	.41	.42	.43	....	....	.50	....	.51	.51
1946 through 1949---	None												
ILLINOIS													
Cairo													
March 16, 1943	.19	.33	....	.36	.40	.46	.47	.49	.49	.49	.49	.50	.50
March 19, 1943	.29	.37	....	.42	.42	.42	.43	.43	.43	.43	.43	.43	.45
May 10, 1943	.36	.59	....	.78	.83	.88	1.04	1.24	1.42	1.47	1.60	1.79	1.79
June 4, 1943	.30	.41	....	.52	.62	.71	.71	.71	.71	.71	.71	.71	.71
June 10, 1943	.33	.49	....	.61	.62	.62	.62	.62	.62	.62	.62	.62	.62
July 4, 1943	.28	.28	....	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29
July 26, 1943	.20	.33	....	.51	.58	.63	.64	.64	.65	.65	.66	.66	.66
July 31, 1943	.25	.38	....	.51	.57	.60	.62	.65	.67	.67	.67	.68	.68
Sept. 3, 1943	.28	.37	....	.51	.57	.57	.57	.57	.57	.57	.57	.57	.57
Sept. 13, 1943	.22	.40	....	.54	.60	.64	.73	.85	.98	1.13	1.33	1.40	1.40
Sept. 15, 1943	.31	.45	....	.51	.64	.69	.73	.73	.74	.74	.74	.74	.74
March 26, 1944	.19	.34	.46	.52	.63	.65	.69	.78	.80	.84	....	.92	.92
April 11, 1944	.29	.57	.81	1.01	1.24	1.47	1.91	2.39	2.83	2.88	....	3.00	3.00
May 23-24, 1944	.31	.49	.71	.91	1.14	1.27	1.28	1.36	1.58	1.64	....	1.71	1.71
June 1, 1944	.30	.49	.66	.76	.81	.83	.84	.85	.85	.85	....	.85	.85
July 26, 1944	.22	.34	.38	.39	.40	.42	.44	.44	.44	.44	....	.45	.45
Aug. 16, 1944	.39	.67	.76	.87	1.08	1.15	1.16	1.17	1.20	1.21	....	1.35	1.35
Aug. 21, 1944	.29	.47	.66	.74	.76	.77	.77	.78	.78	.78	....	.80	.80
Sept. 4, 1944	.26	.40	.49	.52	.54	.56	.57	.57	.57	.57	....	.57	.57
March 17, 1945	.26	.47	.64	.70	.79	.86	.91	.97	1.00	1.04	....	1.06	1.06
March 18, 1945	.12	.22	.23	.42	.50	.51	.52	.52	.52	.56	....	.57	.57
April 12, 1945	.16	.30	.34	.39	.46	.48	.48	.49	.49	.49	....	.49	.49
April 15, 1945	.24	.43	.50	.54	.58	.73	.80	1.02	1.17	1.35	....	1.72	1.72
May 7, 1945	.48	.72	.79	.87	1.01	1.18	1.35	2.14	2.20	2.26	....	2.33	2.33
May 29, 1945	.65	.94	1.15	1.25	1.31	1.33	1.33	1.34	1.34	1.34	....	1.34	1.34
June 11, 1945	.18	.27	.35	.43	.54	.77	1.00	1.06	1.08	1.24	....	1.82	1.82
June 16, 1945	.24	.40	.48	.53	.58	.58	.70	.81	.83	.84	....	.85	.85
June 29, 1945	.18	.36	.39	.42	.42	.42	.47	.47	.48	.49	....	.72	.72
Sept. 1, 1945	.26	.43	.53	.55	.57	.57	.57	.57	.57	.57	....	.57	.57
Sept. 25, 1945	.51	.75	.81	.82	.84	.86	.88	.94	.99	1.01	....	1.01	1.01
Nov. 26-27, 1945	.22	.34	.41	.45	.50	.63	.93	1.08	1.16	1.24	....	1.33	1.33
April 29, 1946	.25	.29	.33	.34	.41	.45	.45	.46	.47	.48	....	.53	.53
May 2-3, 1946	.21	.36	.50	.61	.68	.70	.75	.79	.80	.81	....	.82	.82
May 24, 1946	.22	.43	.59	.68	.92	1.33	1.42	1.64	1.89	1.90	....	1.90	1.90
May 24, 1946	.20	.35	.39	.45	.50	.56	.61	.63	.67	.72	....	.78	.78
May 24, 1946	.47	.78	.99	1.09	1.21	1.27	1.30	1.36	1.49	1.73	....	2.17	2.17
May 25, 1946	.37	.51	.56	.56	.57	.57	.57	.57	.57	.57	....	.57	.57
June 30, 1946	.25	.45	.67	.82	.93	.93	1.06	1.16	1.17	1.17	....	1.17	1.17
June 30, 1946	.62	.97	1.19	1.33	1.49	1.52	1.53	1.53	1.53	1.53	....	1.54	1.54
July 10, 1946	.32	.60	.79	.93	.99	1.02	1.02	1.02	1.02	1.02	....	1.02	1.02
Aug. 3, 1946	.26	.42	.58	.75	.91	.93	.93	.93	.93	.93	....	1.15	1.15
Aug. 5, 1946	.29	.47	.51	.73	1.00	1.17	1.21	1.22	1.24	1.26	....	1.32	1.32
Aug. 6, 1946	.19	.29	.35	.39	.51	.62	.63	.64	.65	.67	....	.70	.70
Oct. 24, 1946	.34	.43	.47	.55	.74	1.03	1.16	1.31	1.42	1.53	....	1.69	1.69
Dec. 28, 1946	.26	.40	.45	.52	.60	.74	.82	.92	1.02	1.05	....	1.10	1.10
April 10, 1947	.14	.25	.34	.46	.59	.83	.94	1.08	1.23	1.41	....	1.63	1.63
April 20, 1947	.19	.31	.34	.37	.40	.43	.43	.44	.44	.44	....	.45	.45
May 15, 1947	.23	.38	.49	.53	.62	.72	.73	.73	.73	.73	....	.74	.74
May 29, 1947	.19	.33	.44	.53	.56	.56	.56	.56	.56	.56	....	.88	.88
June 1, 1947	.28	.39	.39	.39	.41	.43	.45	.46	.46	.46	....	.46	.46
June 19, 1947	.16	.31	.43	.56	.72	.97	1.04	1.05	1.05	1.05	....	1.05	1.05
Nov. 10, 1947	.17	.30	.33	.34	.43	.49	.53	.74	.89	1.00	....	1.04	1.04
March 26, 1948	.30	.39	.45	.49	.55	.62	.65	.68	.68	.68	....	.68	.68
March 26, 1948	.30	.51	.64	.79	.94	1.01	1.05	1.09	1.11	1.11	....	1.21	1.21
April 12, 1948	.15	.30	.36	.40	.43	.47	.53	.59	.64	.68	....	.78	.78
May 16, 1948	.18	.32	.44	.50	.51	.51	.51	.57	.58	.59	....	.80	.80
June 15, 1948	.31	.46	.54	.60	.64	.64	.64	.69	.73	.79	....	.84	.84
June 25, 1948	.25	.35	.36	.38	.41	.44	.49	.53	.56	.56	....	.56	.56
June 26, 1948	.25	.38	.38	.38	.38	.38	.38	.38	.38	.38	....	.38	.38
July 12, 1948	.28	.46	.59	.67	.79	.82	.82	.82	.82	.82	....	.82	.82
July 22, 1948	.36	.60	.75	.83	.93	.95	.95	.95	.95	.97	....	.97	.97
July 30, 1948	.30	.32	.32	.34	.37	.44	.52	.56	.56	.56	....	.56	.56
Aug. 10, 1948	.23	.30	.34	.35	.35	.35	.36	.37	.37	.37	....	.37	.37
Nov. 4-5, 1948	.39	.62	.75	.89	1.07	1.16	1.20	1.28	1.40	1.70	....	2.08	2.08
Jan. 24, 1949	.20	.32	.45	.56	.80	1.06	1.19	1.58	1.88	2.12	2.50	3.21	3.21
Feb. 14-15, 1949	.34	.53	.60	.65	.69	.77	.82	.87	.89	.89	....	1.14	1.14
March 26, 1949	.62	1.03	1.09	1.15	1.20	1.31	1.51	1.61	1.75	1.84	1.85	2.19	2.19
May 9, 1949	.33	.38	.40	.41	.43	.44	.51	.61	.62	.64	.65	.65	.65
May 19-20, 1949	.33	.41	.47	.56	.64	.65	.65	.66	.76	1.03	1.05	1.06	1.06
June 10, 1949	.21	.37	.41	.46	.52	.57	.58	.58	.58	.58	....	.58	.58
June 18, 1949	.26	.37	.47	.52	.60	.66	.66	.66	.66	.66	....	.66	.66
June 21, 1949	.19	.29	.39	.44	.44	.45	.47	.48	.48	.48	....	.48	.48
June 26, 1949	.25	.33	.34	.35	.35	.41	.44	.44	.44	.44	....	.44	.44
July 7, 1949	.24	.33	.34	.36	.52	.64	.70	.72	.73	.73	....	.77	.77
July 15, 1949	.30	.50	.60	.62	.92	1.00	1.01	1.01	1.01	1.03	1.08	1.08	1.08
Aug. 5, 1949	.26	.42	.58	.71	.77	.87	.92	.97	1.00	1.00	1.00	1.00	1.00
Aug. 11, 1949	.23	.30	.33	.34	.34	.34	.34	.34	.34	.34	....	.34	.34
Aug. 16, 1949	.20	.31	.31	.31	.31	.32	.32	.32	.32	.32	....	.32	.32
Nov. 12, 1949	.17	.28	.37	.44	.49	.52	.54	.59	.66	.69	.70	.72	.72
Chicago (Airport)													
April 29, 1943	.26	.29	....	.38	.41	.41	.41	.41	.41	.41	.41	.42	.42
June 3-4, 1943	.26	.32	....	.33	.33	.34	.36	.47	.48	.51	.51	.53	.53
June 13, 1943	.25	.28	....	.29	.29	.29	.29	.29	.29	.29	.29	.29	.29
July 6, 1943	.58	.92	....	1.32	1.57	2.17	2.81	2.96	3.36	3.67	3.78	3.84	3.84

Table 14-Continued

+ Amounts not available.
† Excessive probably occurred but recorder inoperative.
* Tipping bucket not recording; estimated.

EXCESSIVE SHORT DURATION RAINFALL

Table 14-Continued

Station and date	Maximum precipitation in inches (5 to 180 minutes)												
	5	10	15	20	30	45	60	80	100	120	150	180	
INDIANA-Continued													
Indianapolis-Cont'd (Municipal Airport)													
May 14, 1945	.23	.32	.37	.48	.49	.53	.55	.59	.61	.61	....	.62	
May 14, 1945	.14	.21	.30	.40	.52	.67	.75	.82	.88	.93	....	1.03	
June 12, 1945	.19	.31	.35	.46	.53	.65	.86	.99	1.08	1.15	....	1.22	
June 14, 1945	.21	.33	.37	.38	.40	.41	.41	.41	.41	.41	....	.42	
June 16, 1945	.20	.33	.41	.51	.58	.59	.60	.63	.64	.64	....	.65	
June 19, 1945	.25	.38	.43	.48	.68	.70	.70	.70	.70	.70	....	.72	
June 29, 1945	.22	.32	.34	.34	.34	.35	.35	.35	.35	.35	....	.35	
June 30, 1945	.19	.31	.36	.38	.42	.43	.43	.43	.44	.44	....	.59	
June 30, 1945	.34	.61	.73	.74	.76	.77	.77	.80	.84	.86	....	.89	
July 22, 1945	.17	.29	.31	.41	.42	.42	.42	.42	.42	.42	....	.44	
July 25, 1945	.32	.39	.40	.40	.40	.47	.47	.47	.48	.57	....	.58	
July 28, 1945	.17	.29	.37	.48	.64	.70	.86	.93	.97	1.00	....	1.24	
Aug. 14, 1945	.25	.43	.52	.56	.59	.61	.65	.86	.89	.89	....	.90	
Sept. 13, 1945	.18	.27	.39	.42	.48	.57	.63	.69	.74	.82	....	.87	
Sept. 22, 1945	.38	.52	.67	.70	.74	.75	.75	.76	.76	.76	....	.80	
Sept. 27, 1945	.20	.31	.36	.41	.49	.54	.59	.63	.64	.71	....	.96	
Oct. 1, 1945	.21	.36	.42	.49	.54	.67	.73	.75	.76	.81	....	.91	
June 13, 1946	.22	.40	.47	.50	.57	.63	.64	.68	.73	.74	....	.87	
June 18, 1946	.31	.48	.51	.57	.63	.63	.63	.70	.78	.81	....	.85	
July 10, 1946	.20	.32	.37	.40	.40	.40	.40	.41	.42	.44	....	.44	
July 11, 1946	.28	.32	.32	.32	.35	.36	.38	.41	.45	.48	....	.49	
Aug. 15, 1946	.17	.28	.35	.37	.41	.48	.54	.60	.71	.77	....	.91	
Jan. 30, 1947	.31	.46	.53	.60	.70	.83	.93	1.06	1.16	1.25	....	1.37	
May 17, 1947	.23	.30	.33	.35	.39	.45	.48	.49	.49	.50	....	.50	
May 29, 1947	.15	.24	.35	.40	.47	.52	.55	.60	.67	.69	....	.71	
June 6, 1947	.22	.40	.58	.66	.77	1.08	1.17	1.22	1.29	1.35	....	1.53	
July 27, 1947	.43	.68	.87	.96	1.00	1.00	1.01	1.02	1.02	1.02	....	1.02	
Aug. 2, 1947	....	....	.61	.68	.72	.74	.76	.82	.86	.90	....	.98	
Aug. 14, 1947	....	....	.59	.62	.64	.66	.68	.69	.75	.92	....	.98	
Aug. 15, 1947	.18	.31	.42	.56	.74	.86	.99	1.09	1.11	1.13	....	1.25	
Aug. 25, 1947	....	....	.87	1.00	1.23	1.26	1.26	1.26	1.26	1.26	....	1.29	
March 26, 1948	.18	.27	.39	.47	.56	.75	.97	1.26	1.31	1.35	....	1.40	
April 5, 1948	.21	.32	.42	.56	.80	.87	.87	.92	.93	.93	....	1.09	
May 2, 1948	.25	.45	.51	.54	.57	.63	.67	.70	.72	.74	....	.75	
June 15, 1948	.16	.31	.39	.44	.52	.53	.55	.55	.56	.56	....	.63	
June 28, 1948	.42	.61	.63	.65	.87	.87	.87	.87	.87	.87	....	.88	
June 29, 1948	.25	.33	.35	.38	.42	.44	.44	.45	.45	.46	....	.46	
July 21, 1948	.24	.38	.48	.61	.79	.83	.84	1.03	1.08	1.08	....	1.09	
Jan. 18, 1949	.27	.37	.42	.47	.54	.58	.63	.73	.77	.83	....	.93	
Aug. 14, 1949	.50	.75	1.00	1.18	1.34	1.34	1.34	1.34	1.34	1.50	2.26	2.27	
Aug. 28, 1949	.37	.67	.73	.76	.76	.76	.76	.76	.76	.76	....	.76	
* Terre Haute													
May 10, 1943	.18	.35	....	.59	.73	.85	.94	1.01	1.05	1.28	1.49	1.58	
May 15-16, 1943	.28	.36	....	.45	.52	.65	.71	.72	.72	.73	.76	.86	
May 23-24, 1943	.15	.27	....	.40	.59	.73	.79	.87	.85	1.00	1.05	1.10	
Aug. 3, 1943	.21	.37	....	.52	.68	.80	.81	.84	.88	.91	.92	.92	
Sept. 4, 1943	.32	.51	....	.54	.55	.55	.56	.78	.79	.80	.81	.81	
April 11, 1944	.13	.23	.33	.42	.48	.57	.66	.75	.78	.85	....	1.01	
June 2, 1944	.29	.34	.35	.37	.40	.42	.43	.43	.43	.43	....	.44	
Aug. 12, 1944	.31	.56	.69	.76	1.03	1.24	1.25	1.27	1.30	1.33	....	1.36	
Aug. 16, 1944	.31	.52	.65	.65	.65	.65	.66	.66	.67	.70	....	.77	
April 25, 1945	.23	.43	.54	.72	.89	.95	1.02	1.10	1.21	1.21	....	1.42	
May 14-15, 1945	.22	.41	.48	.50	.52	.56	.60	.68	.74	.77	....	.83	
May 16, 1945	.38	.72	1.01	1.22	1.47	1.53	1.59	1.64	1.79	1.81	....	1.82	
June 9, 1945	.34	.46	.52	.55	.61	.69	.74	1.01	1.06	1.20	....	1.38	
June 12, 1945	.25	.37	.50	.63	.83	.99	1.06	1.14	1.17	1.25	....	1.42	
June 16, 1945	.54	.77	.81	.82	.86	.88	.89	.90	.91	.94	....	1.01	
June 30, 1945	.47	.76	.82	.85	.90	.92	.92	.93	.93	.93	....	.93	
July 25, 1945	.30	.56	.78	.86	.90	.92	.92	.92	.92	.92	....	.92	
July 28, 1945	.16	.27	.38	.51	.65	.78	.86	.94	1.06	1.13	....	1.39	
Aug. 14, 1945	.54	.85	.92	.95	.96	.97	.98	.98	.98	.99	....	.99	
Sept. 24, 1945	.30	.44	.45	.46	.47	.47	.47	.47	.47	.47	....	.47	
Sept. 28, 1945	.42	.60	.78	.93	1.15	1.20	1.37	1.43	1.45	1.45	....	1.47	
Oct. 1, 1945	.23	.35	.36	.37	.39	.44	.60	.72	.75	.75	....	.76	
Nov. 1, 1945	.33	.55	.59	.67	.74	1.08	1.18	1.19	1.19	1.19	....	1.19	
May 17, 1946	.36	.64	.83	.99	1.26	1.51	1.60	1.71	1.79	1.82	....	1.96	
May 24, 1946	.29	.43	.50	.53	.55	.56	.57	.59	.59	.60	....	.60	
June 1, 1946	.13	.21	.29	.39	.51	.76	1.02	1.23	1.42	1.52	....	1.69	
Aug. 5, 1946	.50	.85	1.17	1.40	1.55	2.20	2.81	2.94	3.03	3.10	....	3.24	
Jan. 29-30, 1947	.22	.35	.43	.49	.77	.98	1.13	1.18	1.23	1.32	....	1.46	
May 15, 1947	.22	.28	.35	.40	.44	.47	.51	.59	.69	.80	....	1.20	
May 19, 1947	.33	.38	.39	.39	.41	.41	.42	.42	.42	.42	....	.42	
May 24, 1947	.22	.32	.42	.51	.52	.53	.54	.55	.55	.55	....	.55	
May 29, 1947	.27	.40	.51	.57	.69	.74	.76	.77	.80	.80	....	.81	
June 2, 1947	.14	.26	.36	.40	.44	.47	.50	.52	.52	.56	....	.59	
Sept. 11, 1947	.38	.65	.71	.72	.73	.74	.77	.79	.81	.88	....	.93	
Sept. 15, 1947	.22	.35	.37	.38	.39	.39	.41	.47	.52	.58	....	.78	
Oct. 26, 1947	.28	.46	.60	.61	.62	.63	.64	.64	.64	.64	....	.64	
Oct. 27, 1947	.25	.39	.48	.55	.61	.69	.74	.81	.91	.98	....	1.12	
Feb. 27, 1948	.25	.30	.33	.37	.42	.47	.52	.58	.64	.64	....	.69	
March 26, 1948	.24	.31	.35	.37	.44	.50	.55	.59	.73	.85	....	.94	
April 7, 1948	.36	.40	.53	.61	.64	.65	.65	.66	.66	1.02	....	1.05	
May 6, 1948	.18	.33	.40	.45	.48	.53	.56	.58	.59	.59	....	.59	
July 20-21, 1948	.19	.35	.42	.46	.47	.47	.48	.56	.80	.91	....	.91	
July 27-28, 1948	.24	.37	.41	.42	.43	.50	.60	.73	.74	.75	....	.80	
Sept. 20, 1948	.36	.70	.89	.96	1.13	1.28	1.41	1.42	1.42	1.80	....	1.84	
Feb. 14-15, 1949	.21	.31	.38	.42	.46	.49	.53	.62	.69	.75	....	.83	
May 1, 1949	.23	.38	.48	.65	.72	.72	.72	.86	.86	.86	....	.99	
May 15, 1949	.14	.27	.36	.42	.46	.49	.50	.51	.53	.53	....	.53	
June 10, 1949	.34	.66	.95	1.27	1.58	1.86	2.25	2.65	2.82	2.89	2.96	3.06	
June 21, 1949	.18	.26	.39	.39	.40	.41	.41	.41	.41	.41	....	.41	
June 28, 1949	.55	.88	1.15	1.38	1.48	1.58	1.61	1.61	1.61	1.64	1.68	1.70	
July 26, 1949	.32	.44	.44	.44	.44	.44	.44	.44	.44	.44	....	.44	
July 30, 1949	.23	.37	.43	.45	.48	.60	.62	.64	.72	1.02	1.06	1.08	
Sept. 12, 1949	.21	.30	.38	.45	.55	.60	.85	.80	.93	.96	1.00	1.04	
Oct. 11, 1949	.21	.34	.49	.57	.72	1.01	1.32	1.54	1.75	1.86	1.90	1.93	
IOWA													
Burlington (Municipal Airport)													
April 26-27, 1943	.23	.36	....	.39	.53	.73	.84	.95	.99	1.02	1.02	1.02	
July 29, 1943	.16	.33	....	.46	.50	.51	.52	.67	.67	.70	.70	.70	
July 31, 1943	.42	.83	....	1.30	1.41	1.44	1.47	1.50	1.52	1.52	1.53	1.53	
Aug. 3, 1943	.15	.24	....	.39	.49	.72	.86	1.01	1.20	1.41	1.48	1.50	
Oct. 20, 1943	.28	.42	....	.49	.56	.66	.80	1.05	1.17	1.27	1.66	1.77	
April 22-23, 1944	.27	.44	.61	.72	.80	.92	.98	1.04	1.06	1.12	....	1.12	
May 21, 1944	.35	.45											

EXCESSIVE SHORT DURATION RAINFALL

Table 14-Continued

Station and date	Maximum precipitation in inches (5 to 180 minutes)												
	5	10	15	20	30	45	60	80	100	120	150	180	
IOWA-Continued													
Des Moines-Cont'd													
June 15-16, 1943	.43	.83	....	1.39	1.53	1.55	1.60	1.66	1.71	1.75	1.78	1.82
July 13, 1943	.18	.27	....	.41	.41	.41	.42	.42	.42	.42	.42	.42
July 18, 1943	.27	.44	....	.53	.56	.62	.70	.77	.81	.84	.86	.88
July 31, 1943	.47	.71	....	.94	1.13	1.19	1.20	1.20	1.20	1.20	1.20	1.20
Aug. 3, 1943	.37	.59	....	.86	1.06	1.61	1.91	1.94	1.97	2.02	2.12	2.15
Aug. 7, 1943	.46	.74	....	1.04	1.12	1.12	1.12	1.13	1.13	1.13	1.13	1.13
Aug. 12, 1943	.37	.64	....	.98	1.10	1.25	1.27	1.28	1.29	1.30	1.31	1.32
May 2, 1944	.23	.33	.39	.42	.45	.51	.56	.64	.69	.79	....	.91
May 18, 1944	.26	.42	.58	.71	.89	1.01	1.56	1.68	1.70	1.70	....	1.76
June 11, 1944	.38	.62	.75	.86	1.33	1.74	1.90	2.47	2.90	3.20	....	4.01
Aug. 1, 1944	.27	.30	.31	.33	.35	.36	.38	.45	.53	.60	....	.73
April 15-16, 1945	.17	.29	.43	.53	.61	.77	.89	.99	1.09	1.23	....	1.45
May 31, 1945	.25	.43	.59	.65	.76	.99	1.00	1.02	1.03	1.03	....	1.05
July 23, 1945	.17	.29	.37	.43	.62	.77	.79	.81	.85	.86	....	.87
Aug. 2, 1945	.23	.43	.56	.62	.85	.90	.90	.90	1.03	1.26	....	1.28
Aug. 13, 1945	.27	.34	.39	.41	.45	.47	.48	.49	.50	.50	....	.50
Sept. 27, 1945	.35	.60	.79	1.03	1.23	1.45	1.67	1.81	1.87	1.87	....	2.17
June 15, 1946	.28	.50	.68	.84	.98	1.12	1.37	1.47	1.49	1.50	....	1.50
June 17, 1946	.43	.68	.71	.71	.72	.72	.72	.72	.72	.72	....	.72
July 27, 1946	.22	.31	.32	.32	.33	.33	.33	.36	.36	.43	....	.48
Aug. 16-17, 1946	.32	.51	.67	.76	.81	.82	.87	.90	.95	.96	....	1.09
June 4, 1947	.38	.67	.87	1.04	1.36	1.59	1.73	2.04	2.25	2.41	....	2.60
June 7, 1947	.26	.42	.59	.61	.62	.62	.62	.62	.62	.62	....	.62
June 12, 1947	.25	.37	.51	.65	.79	.95	1.21	1.53	1.80	2.01	....	2.46
June 22-23, 1947	.23	.40	.49	.59	.68	.69	.72	.75	.78	.95	....	1.10
July 17, 1947	.20	.35	.40	.42	.43	.43	.44	.44	.44	.44	....	.62
Aug. 25, 1947	.17	.28	.37	.44	.52	.61	.66	.75	.82	.87	....	.94
Oct. 30, 1947	.24	.40	.47	.48	.52	.58	.68	.93	1.02	1.10	....	1.43
June 20, 1948	.20	.48	.58	....	.78	....	.98	....	....	1.00	....	....
July 20-21, 1948	.31	.60	.79	.94	1.12	1.22	1.30	1.36	1.41	1.47	....	1.50
July 25, 1948	.21	.40	.47	.49	.51	.53	.57	.60	.84	.86	....	.89
July 27, 1948	.33	.49	.55	.57	.58	.58	.58	.58	.58	.58	....	.58
July 29, 1948	.16	.27	.30	.38	.42	.42	.42	.42	.42	.43	....	.43
Sept. 20, 1948	.31	.52	.58	.63	.66	.71	.73	.73	.73	.73	....	.73
June 1, 1949	.27	.41	.61	.69	.75	.78	.80	.84	.85	.86	....	.87
June 20, 1949	.22	.37	.45	.54	.60	.64	.64	.64	.65	.66	....	.67
June 24, 1949	.19	.35	.38	.48	.50	.50	.54	.62	.69	.99	1.01	1.04	
July 18, 1949	.18	.28	.42	.47	.53	.58	.58	.58	.58	.64	.64	.64	
July 23, 1949	.19	.35	.40	.46	.46	.46	.46	.46	.46	.46	....	.46
Aug. 11, 1949	.41	.67	.85	1.03	1.42	2.04	2.27	2.40	3.20	3.30	3.37	3.45	
Aug. 19, 1949	.35	.57	.71	.83	1.12	1.19	1.20	1.23	1.26	1.31	1.32	1.33	
Dubuque													
June 27-28, 1943	....	....	....	.60	....	.92	.99	1.03	1.06	1.07	1.07	1.07
June 28, 1943	.24	.41	....	....	.77	....	....	....	....	....	....	....
July 5, 1943	.17	.32	....	.55	.61	.61	.61	.61	.62	.62	.62	.62
July 29, 1943	.21	.37	....	.55	.63	.63	.63	.64	.66	.66	.67	.67
Aug. 2, 1943	.31	.49	....	.57	.59	.87	.91	.91	.92	.92	.93	.94
Aug. 9, 1943	.22	.36	....	.56	.64	.70	.73	.74	.75	.76	.76	.76
Aug. 13, 1943	.32	.45	....	.69	.88	1.36	1.68	1.91	1.97	2.08	2.28	2.36
Sept. 4, 1943	.20	.30	....	.34	.35	.36	.36	.36	.36	.36	.36	.36
May 24, 1944	.18	.29	.38	.48	.50	.53	.57	.60	.60	.60	....	.61
June 12, 1944	.39	.70	.93	1.08	1.23	1.89	1.61	1.65	1.67	1.78	....	2.11
June 15, 1944	.32	.46	.56	.60	.64	.67	.71	.76	.77	.80	....	.83
June 17, 1944	.21	.36	.42	.45	.46	.46	.46	.46	.46	.46	....	.46
June 21-22, 1944	.25	.48	.62	.82	.94	1.05	1.08	1.12	1.12	1.13	....	1.13
June 26, 1944	.59	.88	1.18	1.39	1.63	1.73	1.77	1.93	2.12	2.36	....	2.48
July 8, 1944	.32	.53	.74	.83	1.00	1.35	1.84	2.32	2.67	2.73	....	2.84
July 23, 1944	.18	.25	.30	.39	.47	.48	.53	.54	.54	.54	....	.54
Aug. 4, 1944	.17	.34	.44	.48	.64	.71	.73	.73	.78	.83	....	.98
Aug. 16-17, 1944	.18	.31	.40	.48	.52	.67	.80	.82	.83	.84	....	.86
Aug. 22, 1944	.22	.31	.50	.59	.64	.67	.70	.71	.72	.72	....	.72
March 25, 1945	.26	.37	.42	.44	.48	.50	.51	.52	.83	.91	....	1.07
May 25, 1945	.28	.36	.41	.46	.49	.53	.58	.61	.64	.67	....	.68
May 27, 1945	.36	.51	.53	.55	.61	.61	.64	.69	.70	.71	....	.72
June 15, 1945	.19	.31	.47	.61	.69	.75	.80	.86	.91	.92	....	.93
June 28, 1945	.51	.72	.80	.82	.84	.85	.85	.85	.85	.85	....	.85
June 28, 1945	.51	.65	.72	.90	.93	.97	.97	.98	.98	.98	....	.98
July 27-28, 1945	.27	.41	.50	.55	.63	.66	.68	.72	.77	.83	....	.93
Aug. 13-14, 1945	.21	.33	.39	.46	.58	.72	.90	1.04	1.26	1.39	....	1.60
Aug. 28, 1945	.29	.46	.53	.55	.69	.71	.73	.73	.74	.74	....	.75
Sept. 8, 1945	.32	.41	.42	.42	.42	.42	.42	.42	.42	.42	....	.42
Sept. 9, 1945	.30	.39	.41	.41	.42	.42	.42	.42	.43	.45	....	.47
Sept. 23, 1945	.34	.52	.73	.92	1.08	1.19	1.25	1.27	1.31	1.38	....	1.47
Nov. 12, 1945	.36	.52	.59	.61	.65	.72	.74	.79	.79	.80	....	.83
Aug. 18, 1946	.62	1.01	1.34	1.57	1.77	1.78	1.78	1.79	1.79	1.79	....	1.80
Sept. 7, 1946	.34	.63	.84	1.00	1.18	1.39	1.61	1.67	1.69	1.70	....	1.71
Sept. 8, 1946	.24	.37	.41	.52	.68	1.02	1.17	1.24	1.32	1.40	....	1.93
Sept. 22, 1946	.18	.32	.38	.45	.60	.77	1.02	1.24	1.41	1.46	....	1.72
Oct. 24, 1946	.23	.35	.42	.44	.49	.59	.65	.71	.80	.86	....	.91
Dec. 27, 1946	.22	.30	.38	.41	.45	.47	.57	.62	.63	.64	....	.64
April 29, 1947	.23	.35	.38	.43	.46	.49	.55	.58	.61	.62	....	.63
June 12-13, 1947	.23	.35	.45	.48	.54	.70	.99	1.22	1.29	1.41	....	1.70
June 28, 1947	.21	.39	.53	.62	.69	.72	.75	.76	.77	.79	....	.84
June 30, 1947	.29	.52	.76	.89	.96	1.02	1.07	1.08	1.08	1.09	....	1.09
July 5, 1947	.33	.55	.70	.97	1.31	1.44	1.69	1.79	1.83	1.86	....	1.91
July 12, 1947	.21	.39	.41	.42	.43	.60	.63	.67	.69	.70	....	.70
July 14, 1947	.27	.52	.67	.71	.72	.73	.73	.75	.76	.77	....	.77
July 27, 1947	.20	.34	.45	.65	.84	1.00	1.11	1.23	1.41	1.43	....	1.43
Aug. 28, 1947	.34	.37	.43	.49	.73	.90	.98	1.08	1.11	1.18	....	1.43
Sept. 4, 1947	.29	.47	.61	.71	.81	.84	.85	.86	.87	.88	....	.89
April 27, 1948	.22	.31	.34	.36	.38	.40	.43	.46	.48	.50	....	.53
May 9-10, 1948	.28	.47	.57	.61	.61	.64	.91	1.15	1.16	1.17	....	1.61
June 28, 1948	.21	.36	.42	.44	.57	.92	.96	.98	.98	.98	....	.98
July 29, 1948	.36	.55	.61	.67	.70	.71	.71	.71	.71	.71	....	.71
Aug. 11, 1948	.21	.29	.38	.47	.61	.65	.71	.74	.75	.75	....	.75
Aug. 16, 1948	.24	.36	.41	.42	.44	.44	.45	.45	.45	.45	....	.45
Nov. 16, 1948	.15	.30	.34	.37	.40	.48	.52	.62	.71	.75	....	.77
June 2, 1949	.10	.26	.40	.46	.51	.58	.60	.64	.71	.78	....	.79
July 1, 1949	.44	.75	.91	1.08	1.39	1.88	2.23	2.54	2.57	2.59	2.64	2.71	
July 5, 1949	.48	.66	.71	.82	1.04	1.15	1.15	1.16	1.20	1.27	1.32	1.85	
July 6, 1949	.26	.34	.44	.48	.51	.52	.53	.53	.53	.53	....	.53
July 21, 1949	.26	.47	.57	.68	.88	1.00	1.04	1.12	1.15	1.20	1.23	1.37	
Aug. 11, 1949	.36	.50	.52	.53	.58	.67	.78	.91	.98	1.01	1.05	1.06	
Aug. 17, 1949	.30	.53	.64	.75	.87	.96	1.01	1.01	1.01	1.01	1.01	1.01	

EXCESSIVE SHORT DURATION RAINFALL

Table 14-Continued

Station and date	Maximum precipitation in inches (5 to 180 minutes)														
	5	10	15	20	30	45	60	80	100	120	150	180			
KANSAS-Continued															
Dodge City-Continued (Municipal Airport)															
June 19, 1945	.28	.35	.37	.39	.40	.40	.40	.40	.40	.40	....	.40		
July 6, 1945	.22	.38	.45	.49	.56	.58	.60	.86	.95	.98	....	.98	1.21	.98
July 16, 1945	.36	.55	.68	.78	.90	.97	1.03	1.04	1.05	1.05	....	1.05	1.06	1.06
Aug. 6, 1945	.28	.54	.75	.97	1.22	1.72	1.81	1.82	1.82	1.83	....	1.83	1.91	1.91
Aug. 13, 1945	.36	.50	.63	.67	.68	.69	.69	.69	.69	.69	....	.69	.69	.69
Aug. 18, 1945	.21	.30	.32	.32	.35	.35	.35	.35	.35	.35	....	.35	.35	.35
May 28, 1946	.22	.31	.34	.37	.40	.42	.53	.77	.92	.97	....	1.09	1.09	1.09
Aug. 27, 1946	.24	.42	.64	.81	.88	.96	1.01	1.08	1.12	1.16	....	1.16	1.16	1.16
Sept. 18, 1946	.23	.43	.54	.61	.71	.73	.73	.73	.73	.74	....	.74	.74	.74
April 9, 1947	.18	.30	.37	.42	.47	.52	.56	.76	.91	1.02	....	1.02	1.37	1.37
May 11, 1947	.25	.34	.43	.46	.53	.57	.61	.69	.72	.72	....	.72	.72	1.37
May 27, 1947	.19	.35	.41	.47	.54	.56	.58	.59	.61	.62	....	.61	.61	.61
June 4, 1947	.18	.33	.44	.47	.52	.61	.76	.95	1.28	1.51	....	1.51	1.74	1.74
June 18, 1947	.29	.41	.49	.54	.65	.70	.71	.71	.71	.71	....	.71	.71	.71
July 6, 1947	.14	.30	.40	.47	.53	.62	.63	.66	.72	.77	....	.77	.97	.97
May 3, 1948	.17	.31	.34	.39	.44	.48	.48	.48	.49	.49	....	.49	.49	.49
May 22, 1948	.33	.57	.69	.78	.89	.95	.97	.97	.97	.97	....	.97	.97	.97
June 25, 1948	.18	.25	.34	.47	.64	.73	.77	.81	.82	.83	....	.83	.84	.84
June 26-27, 1948	.19	.34	.47	.56	.77	.94	1.16	1.21	1.25	1.27	....	1.27	1.40	1.40
July 13, 1948	.20	.30	.40	.49	.62	.73	.77	.79	.79	.80	....	.80	.86	.86
July 15, 1948	.29	.35	.45	.52	.65	.91	1.11	1.31	1.62	1.71	....	1.71	1.75	1.75
July 16-17, 1948	.21	.32	.33	.34	.39	.48	.80	.84	.84	.84	....	.84	.84	.84
Aug. 9, 1948	.14	.25	.35	.45	.57	.76	.82	.89	.91	.91	....	.91	.91	.91
Aug. 11, 1948	.15	.26	.36	.46	.53	.54	.54	.54	.54	.54	....	.54	.54	.54
April 30, 1949	.41	.55	.57	.59	.63	.92	1.17	1.20	1.29	1.33	1.38	1.38	1.42	1.42	
May 15, 1949	.39	.49	.53	.59	.66	.75	.81	.91	.99	1.05	1.08	1.08	1.08	1.08	
May 23, 1949	.20	.34	.43	.46	.54	.72	.74	.80	.81	.81	.81	.81	.81	.81	
June 7, 1949	.35	.59	.71	.76	.79	.80	.82	.83	.87	.87	.87	.87	.87	.87	
Oct. 9, 1949	.43	.58	.76	1.00	1.36	1.80	2.11	2.19	2.22	2.46	2.72	2.72	2.77	2.77	
Topeka															
May 5, 1943	.21	.31	....	.33	.37	.39	.43	.47	.49	.49	.49	.49	.49	.49
May 15, 1943	.32	.45	....	.64	.66	.66	.66	.66	.66	.66	.66	.66	.66	.66
June 6, 1943	.39	.72	....	1.18	1.20	1.20	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
June 7, 1943	.30	.56	....	.76	.78	.79	.80	.81	.82	.82	.82	.82	.82	.82
June 9, 1943	.42	.63	....	.98	1.43	1.50	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51
June 10, 1943	.39	.61	....	.80	.83	.85	.88	.93	.97	1.06	1.12	1.16	1.16	1.16
June 15, 1943	.22	.38	....	.53	.73	.98	1.22	1.27	1.28	1.28	1.31	1.31	1.31	1.31
June 15, 1943	.44	.75	....	1.08	1.20	1.24	1.25	1.26	1.27	1.27	1.27	1.27	1.27	1.27
June 28, 1943	.24	.36	....	.47	.61	.65	.66	.68	.70	.71	.73	.74	.74	.74
July 5, 1943	.21	.36	....	.46	.59	.66	.95	1.16	1.17	1.17	1.17	1.17	1.17	1.17
July 17, 1943	.26	.44	....	.75	.90	.99	1.01	1.02	1.02	1.03	1.06	1.10	1.10	1.10
July 19, 1943	.18	.31	....	.38	.41	.48	.49	.54	.61	.62	.62	.62	.62	.62
July 31, 1943	.23	.32	....	.38	.39	.40	.41	.41	.41	.41	.41	.41	.41	.41
Aug. 20, 1943	.18	.31	....	.60	.72	.83	.89	.95	1.00	1.03	1.38	1.44	1.44	1.44
March 3, 1944	.25	.38	.43	.46	.52	.56	.59	.60	.60	.61	.61	.61	.61	.61	
May 27, 1944	.26	.37	.37	.38	.38	.61	.61	.74	.74	.74	.74	.74	.74	.74	
May 30, 1944	.25	.43	.49	.51	.52	.52	.53	.53	.57	.58	.58	.58	.58	.58	
June 20, 1944	.26	.45	.53	.66	.71	.73	.73	.73	.84	.85	....	1.18	1.18	1.18
July 25, 1944	.27	.37	.41	.46	.57	.64	.72	.77	.80	.83	....	1.07	1.07	1.07
July 27, 1944	.19	.38	.44	.46	.51	.53	.53	.53	.54	.54	....	.54	.54	.54
Aug. 15, 1944	.16	.22	.34	.42	.57	.80	.88	.89	.90	.91	....	.91	.91	.91
Aug. 20, 1944	.30	.49	.62	.74	.82	.85	.87	.89	.93	1.00	....	1.18	1.18	1.18
Aug. 25, 1944	.21	.32	.36	.40	.47	.50	.52	.55	.60	.64	....	.83	.83	.83
Sept. 27, 1944	.20	.25	.46	.57	.72	.86	.98	1.08	1.16	1.23	....	1.52	1.52	1.52
March 24, 1945	.41	.56	.71	.74	.87	.96	1.01	1.07	1.14	1.19	....	1.30	1.30	1.30
April 10-11, 1945	.22	.32	.34	.37	.41	.42	.42	.56	.62	.62	....	.73	.73	.73
April 12, 1945	.15	.28	.36	.40	.42	.45	.46	.47	.47	.47	....	.50	.50	.50
April 15, 1945	.14	.26	.34	.40	.63	.78	.94	1.22	1.45	1.60	....	1.88	1.88	1.88
May 14, 1945	.29	.35	.42	.52	.61	.66	.70	.71	.72	.72	....	.72	.72	.72
May 24, 1945	.27	.38	.50	.59	.73	.99	1.18	1.28	1.32	1.35	....	1.44	1.44	1.44
May 26, 1945	.30	.54	.81	.92	1.04	1.07	1.12	1.12	1.13	1.13	....	1.13	1.13	1.13
June 7, 1945	.37	.51	.61	.70	.76	.77	.77	.82	.82	.83	....	.83	.83	.83
June 30, 1945	.58	.89	.96	.99	1.02	1.03	1.23	1.32	1.40	1.43	....	1.66	1.66	1.66
July 8, 1945	.23	.40	.47	.49	.49	.51	.53	.59	.63	.63	.63	.63	.63	.63	
July 9, 1945	.45	.68	.72	.72	.72	.75	.78	.83	.85	.86	.86	.86	.86	.86	
April 5, 1946	.21	.30	.32	.34	.39	.41	.43	.44	.47	.48	....	.56	.56	.56
May 17, 1946	.24	.46	.51	.52	.53	.57	.63	.66	.67	.67	....	.71	.71	.71
June 18, 1946	.26	.48	.64	.83	1.09	1.28	1.31	1.32	1.43	1.64	....	1.89	1.89	1.89
June 19, 1946	.18	.30	.44	.50	.59	.83	1.06	1.23	1.39	1.48	....	1.90	1.90	1.90
June 28, 1946	.20	.34	.41	.47	.51	.57	.59	.60	.61	.62	....	.71	.71	.71
July 8, 1946	.16	.31	.45	.49	.51	.52	.52	.52	.59	.60	.61	.61	.61	.61	
Aug. 12, 1946	.35	.59	.89	1.09	1.31	1.68	1.95	2.60	2.80	2.85	....	3.66	3.66	3.66
April 10, 1947	.31	.49	.53	.54	.55	.59	.64	.70	.77	.87	....	1.16	1.16	1.16
June 4-5, 1947	.14	.25	.33	.42	.58	.85	.92	1.00	1.22	1.27	....	1.30	1.30	1.30
June 6, 1947	.23	.40	.58	.62	.74	.81	.85	.89	.90	.90	....	.92	.92	.92
June 22, 1947	.36	.54	.62	.67	.72	.74	.74	.79	.79	.79	....	.81	.81	.81
July 14, 1947	.15	.26	.36	.39	.41	.72	.82	.98	1.25	1.29	....	1.30	1.30	1.30
Aug. 13-14, 1947	.47	.91	1.26	1.48	1.83	1.98	2.16	2.40	2.53	2.73	....	2.99	2.99	2.99
Sept. 3, 1947	.21	.35	.43	.54	.64	.87	.90	.95	.97	.99	....	1.00	1.00	1.00
March 26-27, 1948	.40	.69	.92	1.02	1.19	1.24	1.26	1.26	1.35	1.42	....	1.43	1.43	1.43
April 24, 1948	.35	.56	.63	.76	.94	1.00	1.04	1.14	1.19	1.26	....	1.49	1.49	1.49
May 1, 1948	.35	.52	.52	.52	.91	1.14	1.30	1.30	1.30	1.76	....	1.91	1.91	1.91
May 23, 1948	.29	.40	.45	.49	.56	.61	.71	.84	.91	.93	....	.97	.97	.97
June 14, 1948	.39	.61	.84	.87	.93	.95	.96	.96	.96	.96	....	.96	.96	.96
June 21, 1948	.35	.54	.66	.80	1.05	1.12	1.12	1.12	1.13	1.13	....	1.13	1.13	1.13
July 19, 1948	.23	.38	.53	.64	.93	1.07	1.13	1.18	1.22	1.25	....	1.31	1.31	1.31
July 21-22, 1948	.29	.53	.78	.96	1.10	1.12	1.16	1.19	1.22	1.25	....	1.27	1.27	1.27
July 25, 1948	.19	.33	.46	.57	.62	.78	1.10	1.22	1.22	1.23	....	1.23	1.23	1.23
Aug. 10, 1948	.35	.67	.90	1.01	1.08	1.12	1.13	1.13	1.13	1.13	....	1.13	1.13	1.13
Sept. 7-8, 1948	.16	.25	.40	.47	.52	.56	.59	.65	.71	.72	....	.72	.72	.72
Oct. 30, 1948	.15	.21	.34	.38											

Table 14-Continued

EXCESSIVE SHORT DURATION RAINFALL

Station and date		Maximum precipitation in inches (5 to 180 minutes)											
		5	10	15	20	30	45	60	80	100	120	150	180
KENTUCKY-Continued													
Louisville-Cont'd (Airport)													
Feb. 26, 1944	.28	.39	.40	.41	.44	.45	.46	.46	.46	.46	....	.46	.46
April 11, 1944	.25	.34	.35	.36	.37	.41	.46	.52	.64	.71	....	.74	.74
April 22-23, 1944	.16	.30	.39	.50	.52	.64	.72	.84	.91	.93	....	.96	.96
May 24, 1944	.26	.48	.54	.55	.55	.55	.57	.69	1.00	1.02	....	1.02	1.02
July 12, 1944	.24	.33	.42	.48	.52	.52	.54	.55	.56	.56	....	.56	.56
July 26, 1944	.38	.68	.77	.83	.95	1.03	1.03	1.03	1.12	1.32	....	1.89	1.89
July 27, 1944	.25	.30	.39	.43	.44	.44	.44	.45	.45	.45	....	.45	.45
Aug. 16, 1944	.27	.51	.63	.76	.85	.87	.87	.87	.87	.88	....	.88	.88
Sept. 4, 1944	.16	.26	.34	.45	.57	.69	.78	.82	.99	1.11	....	1.26	1.26
Sept. 28, 1944	.18	.28	.34	.47	.53	.58	.71	.97	1.07	1.12	....	1.15	1.15
March 30, 1945	.47	.62	.63	.64	.64	.71	.72	.84	.89	.97	....	1.17	1.17
June 16, 1945	.24	.41	.47	.54	.63	.71	.79	.86	.89	.90	....	.97	.97
July 14, 1945	.21	.31	.46	.53	.56	.59	.60	.60	.66	.66	....	.82	.82
Sept. 1, 1945	.30	.46	.50	.51	.52	.52	.52	.53	.53	.53	....	.53	.53
Sept. 13, 1945	.26	.39	.51	.61	.77	1.02	1.13	1.15	1.16	1.17	....	1.18	1.18
Oct. 1, 1945	.29	.38	.64	.72	.90	1.05	1.16	1.22	1.30	1.30	....	1.31	1.31
May 26, 1946	.30	.49	.58	.65	.75	.77	.77	.78	.78	.78	....	.78	.78
June 13, 1946	.25	.42	.53	.60	.64	.71	1.05	1.10	1.27	1.48	....	1.77	1.77
June 19, 1946	.36	.79	1.10	1.25	1.32	1.34	1.34	1.34	1.34	1.34	....	1.34	1.34
July 20, 1946	.27	.43	.53	.55	.57	.59	.61	.61	.61	.61	....	.61	.61
July 21, 1946	.26	.44	.51	.52	.53	.56	.64	.80	.85	.88	....	.96	.96
Aug. 5, 1946	.10	.21	.30	.43	.59	.72	.81	.86	.90	.93	....	.95	.95
Jan. 30, 1947	.33	.47	.49	.50	.54	.57	.59	.62	.62	.69	....	.83	.83
May 17, 1947	.34	.57	.66	.69	.70	.71	.71	.71	.71	.71	....	.71	.71
May 21, 1947	.20	.33	.41	.44	.49	.52	.55	.59	.61	.63	....	.74	.74
June 1-2, 1947	.19	.25	.35	.36	.44	.57	.80	.97	1.03	1.05	....	1.07	1.07
June 27, 1947	.17	.23	.32	.41	.44	.46	.50	.56	.59	.59	....	.59	.59
July 13, 1947	.44	.83	1.05	1.09	1.11	1.13	1.14	1.14	1.16	1.16	....	1.18	1.18
July 18, 1947	.24	.37	.53	.64	.65	.66	.73	.76	.76	.76	....	.76	.76
Aug. 18, 1947	.27	.39	.57	.72	.83	.84	.84	.84	.84	.84	....	.84	.84
Sept. 1, 1947	.13	.25	.35	.39	.40	.40	.40	.40	.40	.40	....	.40	.40
Sept. 12, 1947	.16	.26	.38	.50	.63	.66	.69	.70	.71	.72	....	.78	.78
Oct. 27, 1947	.17	.25	.31	.33	.49	.66	.75	.81	.95	1.01	....	1.23	1.23
Feb. 13, 1948	.18	.31	.42	.50	.61	.66	.71	.78	.82	.88	....	1.19	1.19
March 15, 1948	.21	.38	.55	.66	.74	.79	.84	.87	1.04	1.09	....	1.24	1.24
March 19, 1948	.18	.32	.38	.42	.47	.55	.55	.55	.56	.56	....	.56	.56
April 8, 1948	.25	.38	.48	.67	.80	1.16	1.38	1.38	1.38	1.38	....	1.38	1.38
April 12, 1948	.27	.46	.49	.51	.54	.59	.67	.81	.93	1.16	....	1.52	1.52
June 30, 1948	.40	.50	.53	.54	.56	.57	.57	.57	.57	.57	....	.57	.57
July 22, 1948	.19	.39	.52	.57	.67	.73	.73	.73	.73	.73	....	.74	.74
Aug. 4, 1948	.19	.33	.45	.56	.74	.80	.80	.80	.83	.83	....	.84	.84
Nov. 5, 1948	.27	.36	.38	.46	.54	.60	.67	.89	1.02	1.06	....	1.21	1.21
April 14, 1949	.36	.60	.50	.51	.51	.51	.51	.56	.57	.57	....	.57	.57
May 9, 1949	.30	.49	.59	.64	.69	.73	.77	.87	.98	1.00	1.09	1.13	1.13
May 21, 1949	.15	.25	.35	.35	.35	.35	.35	.38	.38	.38	....	.38	.38
June 29, 1949	.19	.30	.40	.49	.52	.69	.72	.73	.73	.73	....	.73	.73
July 20, 1949	.27	.46	.58	.67	.78	.95	.97	.98	1.00	1.05	1.14	1.16	1.16
Aug. 11, 1949	.29	.41	.41	.41	.41	.41	.41	.41	.41	.41	.41	.41	.41
LOUISIANA													
New Orleans													
Feb. 21, 1943	.35	.52	....	.64	.67	.69	.79	.87	.91	1.02	1.11	1.17	1.17
June 12, 1943	.38	.66	....	.86	1.21	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
July 27, 1943	.35	.49	....	.76	.92	1.01	1.08	1.12	1.12	1.12	1.17	1.24	1.24
Sept. 18, 1943	.40	.78	....	1.22	1.35	1.73	1.95	2.46	2.69	2.88	3.13	3.40	3.40
Feb. 20, 1944	.36	.67	.72	.75	.96	1.10	1.18	1.27	1.39	1.47	....	1.98	1.98
March 22, 1944	.34	.55	.72	.82	.91	.98	1.43	1.53	1.65	1.67	....	1.71	1.71
April 18, 1944	.47	.90	1.17	1.50	1.89	2.18	2.19	2.23	2.40	2.53	....	2.72	2.72
April 23, 1944	.40	.69	1.10	1.33	1.62	1.94	2.02	2.11	2.18	2.27	....	2.45	2.45
May 4, 1944	.52	.81	1.12	1.39	1.78	1.90	1.97	2.08	2.16	2.23	....	2.34	2.34
May 20, 1944	.27	.58	.73	.74	.75	.78	.79	.79	.79	.79	....	.79	.79
June 6-7, 1944	.34	.52	.61	.84	1.08	1.21	1.25	1.27	1.27	1.27	....	1.27	1.27
July 26, 1944	.34	.64	.91	.98	1.37	1.40	1.45	1.45	1.45	1.45	....	1.45	1.45
Aug. 6, 1944	.27	.65	.80	.85	1.10	1.35	1.41	1.43	1.43	1.43	....	1.43	1.43
Aug. 8, 1944	.28	.46	.66	.78	.93	1.03	1.04	1.04	1.04	1.04	....	1.04	1.04
Sept. 2, 1944	.37	.56	.80	.94	1.17	1.22	1.35	1.41	1.41	1.41	....	1.41	1.41
Sept. 6, 1944	.22	.40	.61	.79	1.11	1.31	1.33	1.33	1.33	1.33	....	1.33	1.33
Sept. 22, 1944	.33	.66	.99	1.24	1.29	1.29	1.29	1.29	1.29	1.29	....	1.29	1.29
Nov. 8, 1944	.36	.60	.88	1.12	1.58	1.94	2.26	2.89	3.08	3.13	....	3.30	3.30
Jan. 21, 1945	.35	.51	.57	.63	.73	.81	.85	.87	.90	1.04	....	1.14	1.14
March 30, 1945	.53	.81	.99	1.01	.94	1.08	1.11	1.17	1.22	1.27	....	1.33	1.33
April 21, 1945	.37	.66	.89	.94	.96	1.04	1.70	1.90	2.34	2.66	....	2.99	2.99
June 18, 1945	.27	.50	.64	.68	.75	.79	.84	.90	.92	.92	....	.92	.92
Aug. 14, 1945	.37	.54	.70	.84	1.04	1.20	1.24	1.25	1.25	1.25	....	1.25	1.25
Sept. 20, 1945	.37	.61	.89	1.21	1.46	1.69	1.75	1.75	1.75	1.75	....	1.75	1.75
Dec. 24-25, 1945	.40	.57	.67	.73	.74	.74	.74	.74	.74	.74	....	.74	.74
Jan. 5, 1946	.55	.73	.76	.83	.90	.97	1.03	1.12	1.20	1.22	....	1.22	1.22
June 6, 1946	.30	.50	.64	.72	.82	.92	.99	1.08	1.21	1.31	....	1.46	1.46
March 8, 1946	.78	1.22	1.40	1.51	1.64	1.78	1.87	1.98	2.03	2.06	....	2.18	2.18
March 15, 1946	.36	.55	.63	.67	.76	.88	.93	1.05	1.40	1.54	....	1.61	1.61
March 26, 1946	.49	.89	1.22	1.49	1.66	2.11	2.86	3.00	3.02	3.03	....	3.11	3.11
March 27, 1946	.90	1.47	1.89	1.98	2.01	2.06	2.09	2.24	2.36	2.44	....	3.12	3.12
May 11, 1946	.35	.50	.57	.65	.84	1.00	1.09	1.11	1.11	1.12	....	1.15	1.15
May 12, 1946	.52	.82	1.09	1.33	1.54	1.61	1.65	1.68	1.75	1.83	....	2.07	2.07
May 13, 1946	.47	.81	1.00	1.08	1.27	1.32	1.41	1.45	1.49	1.52	....	1.53	1.53
May 31, 1946	....	....	....	....	....	....	....	....	....	....	....	....	....
June 1, 1946	.47	.68	.90	1.10	1.19	1.25	1.33	1.36	1.38	1.39	....	1.40	1.40
July 2, 1946	.44	.77	1.00	1.28	1.66	1.72	1.72	1.72	1.72	1.72	....	1.72	1.72
July 4, 1946	.34	.53	.56	.56	.56	.56	.56	.56	.56	.57	....	.62	.62
July 9, 1946	.41	.75	1.06	1.23	1.45	1.58	1.70	1.76	1.76	1.76	....	1.76	1.76
July 13, 1946	.42	.66	.80	.83	.83	.89	1.15	1.16	1.16	1.16	....	1.25	1.25
Aug. 28, 1946	.29	.46	.66	.75	.83	.92	.97	.99	.99	1.24	....	1.35	1.35
Sept. 17, 1946	.28	.49	.67	.72	.86	.96	1.03	1.09	1.13	1.18	....	1.20	1.20
Sept. 24, 1946	.30	.54	.76	.99	1.40	2.03	2.54	2.77	2.90	2.94	....	3.05	3.05
Sept. 29, 1946	.31	.54	.71	.78	.85	.92	1.00	1.03	1.06	1.06	....	1.13	1.13
Jan. 2, 1947	.55	.80	.81	.81	.83	.83	.84	.93	1.00	1.03	....	1.18	1.18
March 30, 1947	.41	.60	.73	.81	.90	1.01	1.14	1.19	1.22	1.30	....	1.38	1.38
April 1, 19													

EXCESSIVE SHORT DURATION RAINFALL

Table 14-Continued

Station and date	Maximum precipitation in inches (5 to 180 minutes)													
	5	10	15	20	30	45	60	80	100	120	150	180		
MARYLAND-Continued														
Baltimore-Continued														
May 24, 1944	.23	.31	.33	.37	.42	.46	.47	.48	.48	.48	....	.48		
June 19, 1944	.28	.43	.47	.47	.47	.48	.48	.48	.48	.48	....	.48		
June 23, 1944	.25	.35	.45	.49	.56	.58	.60	.62	.65	.66	....	.67		
July 26, 1944	.58	.97	1.20	1.43	1.71	1.82	1.83	1.83	1.83	1.83	....	1.83		
Aug. 31, 1944	.15	.28	.35	.37	.37	.38	.38	.38	.38	.38	....	.38		
Sept. 13, 1944	.22	.34	.44	.48	.58	.74	.85	1.17	1.38	1.49	....	1.63		
Sept. 13, 1944	.20	.32	.42	.48	.58	.66	.68	.69	.71	....	....	.75		
Oct. 13, 1944	.20	.31	.38	.41	.44	.46	.51	.51	.51	.51	....	.54		
June 18, 1945	.22	.34	.34	.34	.38	.39	.39	.39	.39	.39	....	.39		
June 21, 1945	.21	.28	.32	.41	.47	.49	.52	.53	.56	.59	....	.60		
July 2, 1945	.31	.35	.36	.38	.39	.44	.53	.57	.63	.67	....	.69		
July 17-18, 1945	.43	.59	.65	.69	.76	.80	.83	.93	.97	1.01	....	1.12		
July 19, 1945	.24	.34	.41	.47	.56	.72	.81	.93	1.06	1.08	....	1.10		
July 22, 1945	.26	.29	.32	.34	.35	.35	.35	.35	.35	.35	....	.35		
July 30, 1945	.16	.26	.35	.40	.43	.45	.45	.45	.45	.45	....	.45		
Aug. 25, 1945	.22	.34	.39	.40	.40	.40	.40	.40	.40	.40	....	.40		
Sept. 9, 1945	.21	.31	.34	.36	.36	.36	.36	.36	.36	.36	....	.36		
May 18, 1946	.43	.47	.48	.57	.62	.68	.73	.81	.85	.87	....	.89		
May 27, 1946	.32	.46	.53	.55	.55	.56	.61	.63	.65	.66	....	.66		
June 18, 1946	.46	.69	.73	.83	.88	.88	.88	.88	.88	.88	....	.88		
July 8, 1946	.33	.41	.42	.43	.47	.49	.49	.50	.50	.50	....	.50		
July 20, 1946	.16	.27	.34	.35	.36	.52	.65	.66	.72	.74	....	.87		
July 22, 1946	.40	.61	.70	.83	1.15	1.52	1.58	1.75	2.05	2.11	....	2.19		
Aug. 6, 1946	.34	.52	.66	.70	.75	.82	.88	.92	.94	.94	....	.95		
Aug. 18, 1946	.37	.70	.89	1.21	1.53	1.55	1.55	1.55	1.55	1.55	....	1.55		
Sept. 24, 1946	.14	.24	.36	.43	.51	.54	.59	.62	.63	.64	....	.65		
April 30, 1947	.35	.42	.53	.65	.88	1.01	1.50	1.82	1.82	1.82	....	2.86		
June 7, 1947	.54	.92	1.32	1.57	2.04	2.16	2.21	2.21	2.21	2.21	....	2.21		
June 8, 1947	.54	.72	.75	.75	.76	.76	.76	.76	.76	.76	....	.96		
June 14, 1947	.25	.41	.55	.74	.97	1.06	1.16	1.27	1.38	1.43	....	1.55		
July 7, 1947	.21	.36	.43	.44	.71	.85	.87	.87	.87	.87	....	1.07		
July 17, 1947	.36	.53	.71	1.00	1.07	1.12	1.38	1.55	1.56	1.57	....	2.14		
Aug. 26, 1947	.43	.60	.65	.81	.94	.98	.99	.99	.99	1.00	....	1.01		
Sept. 6, 1947	.21	.39	.54	.65	.75	.79	.84	.93	.95	.95	....	.96		
June 12, 1948	.77	1.23	1.33	1.33	1.33	1.35	1.39	1.40	1.41	1.41	....	1.41		
June 24, 1948	.20	.35	.54	.64	.65	.66	.68	.69	.69	.69	....	.69		
June 30, 1948	.27	.42	.45	.47	.47	.47	.47	.48	.48	.48	....	.48		
July 13, 1948	.26	.38	.45	.67	.84	.89	.89	.90	.91	.91	....	.93		
Aug. 1, 1948	.26	.38	.50	.57	.68	.80	.84	.87	.88	.89	....	1.01		
Aug. 11, 1948	.36	.53	.57	.60	.63	.64	.66	.67	.74	.77	....	.78		
Aug. 16, 1948	.21	.29	.38	.43	.47	.49	.51	.55	.57	.58	....	.58		
May 2, 1949	.20	.30	.39	.44	.52	.59	.64	.68	.74	.82	....	.93		
Oct. 7, 1949	.33	.41	.46	.48	.49	.50	.50	.50	.50	.62	....	.73		

MASSACHUSETTS

Boston (Airport)														
July 31, 1943	.24	.27	....	.64	.72	.74	.74	.74	.74	.74	....	.75		
Aug. 13-14, 1943	.21	.37	....	.49	.52	.53	.53	.55	.56	.56	....	.57		
June 22, 1944	.18	.34	.45	.52	.53	.53	.54	.54	.54	.54	....	.54		
June 24, 1944	.18	.28	.35	.39	.55	.78	.90	.98	1.03	1.03	....	1.04		
July 10, 1944	.19	.30	.37	.44	.50	.70	.81	.89	.96	.99	....	.99		
Aug. 16, 1944	.25	.35	.40	.40	.41	.41	.41	.41	.41	.41	....	.41		
Aug. 17, 1944	.26	.47	.62	.72	.78	.80	.80	.86	.89	.94	....	.94		
Nov. 30, 1944	.13	.23	.32	.41	.49	.57	.63	.76	.88	1.02	....	1.33		
June 15, 1945	.19	.28	.36	.38	.40	.43	.45	.46	.46	.46	....	.46		
June 20, 1945	.32	.46	.51	.56	.59	.81	.96	1.13	1.24	1.28	....	1.45		
Aug. 3, 1945	.30	.34	.44	.49	.67	.70	.71	.71	.71	.72	....	.72		
Aug. 15, 1945	.35	.47	.48	.49	.49	.80	.50	.51	.51	.51	....	.51		
Sept. 15, 1945	.26	.32	.33	.50	.59	.61	.61	.61	.65	.68	....	.68		
June 8, 1946	.43	.58	.60	.61	.63	.66	.70	.74	.75	.76	....	.77		
July 30, 1946	.31	.52	.64	.79	.93	1.16	1.20	1.21	1.23	1.25	....	1.26		
July 28, 1947	.33	.52	.69	.80	.88	.89	.90	.90	.92	.95	....	.96		
Aug. 26, 1947	.37	.52	.68	.73	.77	.79	.84	.91	.98	1.02	....	1.05		
Sept. 2, 1947	.30	.43	.48	.50	.74	.95	1.36	1.39	1.47	1.55	....	1.62		
Nov. 12, 1947	.17	.34	.46	.58	.78	1.00	1.18	1.30	1.37	1.43	....	1.61		
June 6, 1948	.22	.32	.35	.39	.43	.45	.47	.47	.47	.47	....	.47		
July 21-22, 1948	.18	.33	.39	.47	.52	.58	.59	.62	.72	.75	....	.78		
July 23, 1948	.22	.39	.45	.49	.55	.58	.60	.63	.69	.70	....	.75		
Oct. 12, 1948	.20	.26	.40	....	.60	.85	.96	1.01	1.06	1.31	....	1.38		
Sept. 1, 1949	.41	.68	.83	.89	.93	1.12	1.61	1.81	1.94	1.96	....	2.03		

* Nantucket

Aug. 5, 1943	.25	.43	....	.47	.47	.49	.52	.52	.52	.52	....	.77		
Aug. 14, 1943	.16	.28	....	.37	.53	.78	.91	1.01	1.09	1.15	....	1.18		
May 22, 1944	.15	.20	.24	.35	.50	.68	.81	.88	.89	.91	....	.93		
Nov. 30, 1944	.15	.27	.40	.42	.44	.46	.57	.82	.86	.90	....	.95		
July 29, 1945	.25	.40	.48	.53	.85	.92	.93	.99	.99	1.40	....	1.60		
April 4, 1946	.21	.27	.36	.42	.53	.64	.76	.87	.95	1.01	....	1.11		
May 12, 1946	.26	.39	.49	.51	.53	.59	.60	.60	.60	.60	....	.61		
May 21, 1946	.21	.32	.35	.44	.49	.56	.66	.71	.74	.76	....	1.11		
Sept. 30, 1946	.18	.30	.44	.55	.72	.89	1.06	1.23	1.33	1.42	....	1.55		
May 1, 1947	.13	.22	.29	.38	.52	.68	.77	.89	.95	.97	....	1.07		
Sept. 2, 1947	.27	.31	.32	.33	.44	.44	.44	.44	.44	.44	....	.44		
Nov. 8, 1947	.34	.48	.51	.55	.58	.60	.60	.64	.69	.69	....	.69		
June 24, 1948	.29	.48	.59	.61	.74	.76	.76	.76	.76	.77	....	.77		
Aug. 31, 1948	.20	.30	.40	.45	.54	.72	1.11	1.26	1.29	1.29	....	1.29		
Sept. 20, 1948	.30	.55	.71	1.00	1.52	2.03	2.12	2.26	2.26	2.26	....	2.26		
Oct. 26, 1949	.20	.34	.41	.50	.62	.71	.71	.71	.71	.71	....	.71		

MICHIGAN

Alpena														
June 1, 1943	.35	.50	....	.56	.57	.58	.60	.61	.62	.63	.63	.63	.63	.63
July 14, 1943	.23	.36	....	.42	.43	.43	.43	.43	.43	.43	.44	.44	.44	.44
July 17, 1943	.15	.25	....	.43	.58	.75	.84	.88	.92	.96	1.01	1.02	1.02	1.02
Aug. 9, 1943	.16	.21	....	.33	.50	.59	.65	.69	.71	.72	.77	.87	.87	.87
May 31, 1944	.41	.54	.70	.84	1.01	1.05	1.05	1.07	1.08	1.13	....	1.17	....	1.17
July 19, 1944	.36	.39	.40	.40	.40	.56	.59	.59	.60	.60	....	.60	....	.60
Sept. 21, 1944	.33	.41	.43	.48	.59	.62	.63	.63	.63	.64	....	.64	....	.64
July 9, 1945	.25	.43	.44	.46	.52	.56	.56	.57	.70	.85	....	.94	....	.94
Aug. 14, 1945	.15	.24	.29	.35	.49	.68	.88	1.05	1.08	1.11	....	1.12	....	1.12
Oct. 18, 1945	.25	.38	.39	.40	.41	.41	.42	.42	.42	.42	....	.42	....	.42
June 17, 1946	.16	.28	.41	.50	.59	.68	.81	.85	.90	.93	....	1.03	....	1.03
Sept. 9, 1946	.14	.25	.35	.42	.55	.65	.72	.81	.85	1.00	....	1.28	....	1.28
1947 and 1948--None														
May 13, 1949	.16	.25	.36	.39	.43	.47	.49	.54	.56	.57	.57	.57	.57	.57
May 18-19, 1949	.14	.19	.29	.40	.44	.48	.51	.52	.54	.55	.55	.55	.55	.55
June 13, 1949	.18	.23	.32	.36	.49	.66	.66	.66	.66	.66	.66	.66	.66	.66
July 18, 1949	.20	.33	.37	.46	.49	.59	.59	.59	.59	.59	.59	.59	.59	.59
Aug. 27, 1949	.29	.44	.52	.56	.62	.70	.75	.77	.79	.80	.80	.80	.80	.80

EXCESSIVE SHORT DURATION RAINFALL

Table 14-Continued

Station and date		Maximum precipitation in inches (5 to 180 minutes)													
		5	10	15	20	30	45	60	80	100	120	150	180		
MICHIGAN-Continued															
Lansing-Continued															
Sept. 21, 1947	.28	.48	.59	.72	.87	.99	1.08	1.18	1.25	1.32	....	1.46			
March 19, 1948	.20	.33	.40	.43	.46	.61	.81	.95	1.02	1.09	....	1.36			
May 9-10, 1948	.18	.30	.35	.46	.62	.66	.67	.69	.72	.80	....	.84			
June 22, 1948	.28	.45	.45	.51	.71	.72	.72	1.02	1.05	1.06	....	1.30			
July 30, 1948	.22	.33	.34	.35	.35	.35	.35	.35	.35	.35	....	.35			
Aug. 11, 1948	.56	.83	1.00	1.07	1.12	1.18	1.21	1.25	1.42	1.44	....	1.51			
June 25, 1949	.27	.45	.52	.64	.83	.95	.98	.98	.98	.98	1.05	1.05			
July 5, 1949	.31	.56	.65	.67	.68	.68	.68	.68	.68	.68	.68	.68			
July 9, 1949	.47	.65	.76	.79	.80	.80	.80	.81	.83	1.07	1.09	1.09			
Marquette															
June 12, 1943	.30	.49	....	.84	1.12	1.15	1.18	1.20	1.22	1.22	1.22	1.22			
June 19, 1943	.31	.53	....	.78	.85	.88	.99	1.06	1.07	1.07	1.07	1.07			
July 24, 1943	.43	.69	....	1.13	1.31	1.50	1.54	1.56	1.58	1.58	1.59	1.60			
July 11, 1944	.22	.35	.40	.44	.55	.63	.69	.73	.75	.76	....	1.05			
Aug. 15, 1944	.21	.39	.46	.55	.67	.82	.91	.95	1.03	1.07	....	1.22			
Aug. 12, 1945	.25	.31	.49	.59	.80	.88	1.06	1.43	1.44	1.45	....	1.45			
June 10-11, 1946	.22	.37	.48	.65	.74	.77	.79	.84	.88	.89	....	.94			
Aug. 3, 1946	.32	.51	.63	.67	.84	.97	1.14	1.19	1.19	1.20	....	1.20			
Aug. 18, 1946	....	.54	....	.76	1.09	1.23	1.23	....	1.33	....	....	1.35			
Sept. 5, 1946	.21	.30	.43	.47	.56	.66	.73	.90	.92	.92	....	.92			
July 4-5, 1947	.23	.33	.41	.41	.43	.60	.63	.64	.64	.64	....	.67			
July 5, 1947	.24	.42	.49	.50	.52	.58	.62	.65	.68	.71	....	.74			
Aug. 13, 1947	.44	.60	.61	.62	.69	.71	.73	.74	.74	.74	....	.74			
Aug. 27, 1947	.26	.44	.56	.68	.88	1.00	1.03	1.11	1.21	1.28	....	1.35			
Sept. 7, 1947	.29	.45	.51	.55	.61	.72	.76	.80	.82	.83	....	.85			
June 4, 1948	.33	.47	.72	.91	1.11	1.33	1.36	1.45	1.46	1.47	....	1.83			
Aug. 28, 1948	.37	.66	.76	.79	.85	.90	.90	.90	.90	.91	....	.91			
May 5, 1949	.33	.51	.59	.65	.74	.80	.82	.93	1.01	1.03	1.04	1.04			
July 27, 1949	.26	.50	.59	.66	.77	.95	1.02	1.08	1.12	1.17	1.17	1.17			
July 27, 1949	.28	.47	.52	.59	.66	.67	.67	.68	.68	.68	.73	.73			
July 28, 1949	.32	.51	.68	.86	1.27	1.71	2.00	2.32	2.98	3.37	3.87	3.93			
Sept. 3, 1949	.24	.45	.60	.69	.76	.80	.81	.92	1.01	1.06	1.12	1.20			
Sault Ste Marie (Municipal Airport)															
June 14, 1943	.30	.43	....	.64	.81	.98	1.05	1.10	1.13	1.16	1.17	1.17			
Aug. 5, 1944	.33	.47	.51	.53	.55	.55	.55	.55	.55	.55	....	.55			
Aug. 11, 1944	.30	.40	.45	.52	.57	.67	.76	.83	1.21	1.36	....	1.60			
1945--None															
May 24, 1946	.22	.34	.43	.56	.60	.71	.76	.81	.87	.95	....	1.14			
Aug. 9, 1946	.24	.31	.33	.34	.38	.44	.48	.50	.50	.50	....	.51			
Aug. 18, 1946	.20	.27	.36	.41	.51	.62	.64	.65	.66	.66	....	.67			
1947--None															
June 28, 1948	.19	.25	.29	.36	.53	.57	.66	.70	.72	1.03	....	1.14			
May 5, 1949	.20	.31	.44	.54	.70	.74	.74	.75	.75	.75	....	1.02			
June 20, 1949	.16	.22	.28	.35	.49	.70	.82	.91	.94	.95	1.18	1.19			
June 21, 1949	.37	.52	.56	.62	.72	.78	.84	.89	.94	.95	.96	.96			
June 26, 1949	.20	.28	.36	.41	.49	.69	.79	1.01	1.16	1.22	1.28	1.29			
July 18-19, 1949	.18	.30	.32	.44	.45	.48	.49	.49	.72	.75	.76	.76			
July 26, 1949	.32	.54	.61	.65	.76	.76	.77	.77	.77	.77	.77	.77			
Sept. 13, 1949	.14	.25	.38	.48	.54	.73	.82	.92	.98	1.05	1.12	1.14			
Oct. 22, 1949	.44	.79	.89	.92	.94	.95	.95	.95	.95	.95	1.00	1.01			
MINNESOTA															
Duluth															
June 3, 1943	.29	.42	....	.58	.68	.71	.71	.71	.71	.71	.71	.72			
June 25, 1943	.29	.40	....	.44	.45	.45	.45	.46	.47	.47	.47	.47			
June 27, 1943	.21	.31	....	.39	.48	.55	.59	.63	.63	.63	.63	.64			
July 29, 1943	.27	.43	....	.45	.46	.47	.48	.49	.51	.51	.51	.51			
Aug. 1, 1943	.59	.82	....	1.05	1.10	1.15	1.24	1.25	1.31	1.32	1.34	1.47			
Sept. 4, 1943	.19	.27	....	.53	.62	.74	.83	.87	.89	.89	.90	.90			
May 30, 1944	.50	.74	.87	1.17	1.26	1.35	1.36	1.38	1.38	1.39	....	1.39			
June 13, 1944	.15	.29	.40	.45	.55	.60	.65	.81	.86	.87	....	.95			
Aug. 8, 1944	.22	.33	.48	.58	.63	.68	.70	.74	.75	.75	....	.82			
Aug. 30, 1944	.26	.40	.48	.60	.89	1.09	1.19	1.25	1.26	1.28	....	1.49			
July 8, 1945	.53	.64	.65	.66	.68	.69	.69	.70	.70	.70	....	.70			
Aug. 13, 1945	.28	.41	.53	.60	.67	.78	.78	.86	.88	.88	....	.89			
Aug. 20, 1945	.29	.54	.76	.95	1.13	1.18	1.23	1.24	1.24	1.24	....	1.26			
Sept. 19, 1945	.26	.32	.34	.37	.38	.42	.60	.65	.66	.66	....	.66			
June 23-24, 1946	.21	.27	.30	.41	.59	.74	.77	.80	.86	.90	....	.96			
July 18, 1946	.34	.45	.51	.52	.55	.60	.61	.61	.61	.62	....	.62			
Oct. 29-30, 1946	.23	.38	.39	.40	.41	.41	.42	.43	.43	.45	....	.45			
Aug. 2, 1947	.24	.36	.41	.43	.44	.45	.46	.46	.46	.46	....	.46			
Aug. 8, 1947	.23	.35	.41	.44	.46	.50	.57	.61	.63	.66	....	.69			
Aug. 13, 1947	.29	.49	.76	.94	1.08	1.37	1.40	1.44	1.44	1.44	....	1.44			
June 22, 1948	.21	.32	.37	.40	.51	.60	.64	.68	.71	.76	....	.89			
July 29, 1948	.16	.24	.40	.42	.42	.42	.43	.43	.43	.43	....	.43			
May 3, 1949	.22	.37	.40	.44	.53	.62	.67	.70	.70	.70	.70	.70			
July 3, 1949	.39	.56	.60	.62	.65	.68	.70	.75	.81	1.02	1.08	1.14			
July 24, 1949	.48	.65	.77	.83	.90	.92	.93	.98	1.00	1.00	1.00	1.00			
July 28, 1949	.29	.49	.61	.63	.66	.68	.73	.75	.76	.77	.78	.78			
Minneapolis (Nold, Chamberlain Airport)															
May 29, 1943	.28	.51	....	.85	1.08	1.25	1.43	1.51	1.53	1.57	1.64	1.72			
June 11-12, 1943	.21	.31	....	.52	.65	.72	.75	.82	.87	.91	.98	1.03			
June 14, 1943	.45	.66	....	.87	1.00	1.05	1.42	1.47	1.50	1.52	1.62	1.66			
May 10, 1944	.32	.38	.42	.49	.55	.60	.77	.87	.94	1.17	....	1.20			
June 1, 1944	.26	.40	.56	.71	1.12	1.47	1.79	2.04	2.06	2.07	....	2.16			
June 13, 1944	.28	.52	.69	.72	1.12	1.14	1.14	1.15	1.15	1.15	....	1.35			
June 1, 1944	.29	.50	.60	....	....	....	1.24	....	1.44	....	....	1.54			
July 19, 1945	.27	.37	.38	.48	.41	.42	.42	.77	.78	.78	....	.78			
July 3, 1945	.19	.27	.39	.48	.56	.62	.64	.66	.74	.78	....	.92			
July 27, 1945	.20	.35	.51	.60	.65	.72	.73	.74	.74	.75	....	.75			
May 23, 1946	.16	.26	.37	.47	.57	.58	.59	.59	.61	.61	....	.61			
June 5, 1946	.39	.50	.54	.61	.64	.67	.68	.82	1.12	1.16	....	1.49			
June 15, 1946	.32	.44	.51	.53	.72	.90	1.05	1.14	1.38	1.52	....	1.54			
July 6, 1946	.56	.78	.97	1.10	1.24	1.29	1.35	1.36	1.39	1.39	....	1.40			
Sept. 5, 1946	.34	.64	.88	1.08	1.25	1.60	1.69	1.76	1.80	1.80	....	1.81			
June 9, 1947	.24	.27	.36	.39	.40	.50	.51	.51	.52	.54	....	.55			
June 26, 1947	.19	.39	.46	.49	.57	.63	.66	.67	.67	.67	....	.70			
June 28, 1947	.27	.38	.41	.43	.45	.47	.52	.60	.62	.65	....	.66			
Aug. 31, 1947	.34	.62	.70	.71	.71	.71	.71	.72	.72	.72	....	.72			
1948--None															
June 12, 1949	.23	.39	.50	.53	.57	.63	.70	.76	.78	.79	.79	.80			
June 20, 1949	.21	.33	.36	.37	.40	.41	.42	.43	.43	.43	.43	.43			
June 25, 1949	.27	.42	.50	.53	.56	.56	.57	.57	.57	.57	.57	.57			
July 27, 1949	.28	.50	.68	.85	1.13	1.68	2.00	2.50	2.75	2.99	3.67	3.87			
Aug. 10, 1949	.33	.58	.77	.93	.97	.98	.98	.98	1.12	1.31	1.32	1.32			

Station and date		Maximum precipitation in inches (5 to 180 minutes)													
		5	10	15	20	30	45	60	80	100	120	150	180		
MISSISSIPPI</															

EXCESSIVE SHORT DURATION RAINFALL

Table 14-Continued

Station and date	Maximum precipitation in inches (5 to 180 minutes)											
	5	10	15	20	30	45	60	80	100	120	150	180
MISSISSIPPI-Continued												
Vicksburg-Continued												
Oct. 12, 1949	.24	.40	.50	.56	.62	.70	.73	.74	.74	.74	.74	.74
Dec. 27, 1949	.20	.31	.39	.41	.44	.48	.50	.52	.53	.54	.54	.54
MISSOURI												
Columbia												
May 6, 1943	.22	.42	....	.54	.64	.76	.81	.81	.85	.89	.89	.90
May 7, 1943	.18	.27	....	.46	.56	.73	.86	1.02	1.22	1.37	1.56	1.67
May 15, 1943	.44	.52	....	.60	.61	.61	.61	.61	.61	.61	.61	.61
May 18-19, 1943	.21	.27	....	.40	.54	.83	.94	1.08	1.16	1.38	1.49	1.52
June 3, 1943	.46	.48	....	.49	.49	.51	.64	.65	.65	.65	.70	.77
June 5, 1943	.41	.48	....	.57	.57	.58	.58	.58	.70	.85	1.14	1.14
June 8, 1943	.40	.76	....	1.06	1.33	1.56	1.84	2.41	2.57	2.65	2.73	2.79
July 5, 1943	.17	.29	....	.54	.60	.64	.66	.68	.68	.68	.68	.68
July 24, 1943	.28	.48	....	.82	1.03	1.29	1.46	1.48	1.49	1.49	1.50	1.51
July 30, 1943	.47	.82	....	1.47	2.11	2.47	2.49	2.62	2.94	2.98	3.00	3.00
Aug. 7, 1943	.25	.34	....	.36	.39	.51	.53	.54	.57	.58	.59	.60
Sept. 5-6, 1943	.20	.32	....	.48	.54	.55	.56	.56	.58	.58	.58	.58
Sept. 13, 1943	.21	.38	....	.52	.68	.83	.85	.89	.93	.98	1.00	1.15
Nov. 6, 1943	.24	.42	....	.59	.64	.64	.64	.65	.65	.66	.66	.67
April 21, 1944	.36	.62	.64	.65	.66	.69	.73	.75	.76	.80	....	.86
April 22, 1944	.33	.45	.58	.68	.84	1.02	1.02	1.06	1.11	1.11	....	1.56
April 22, 1944	.23	.30	.35	.41	.54	.55	.79	.91	1.02	1.03	....	1.10
May 1, 1944	.17	.21	.34	.39	.54	.67	.73	.77	.83	.86	....	1.10
May 23, 1944	.24	.38	.53	.72	.93	1.24	1.38	1.42	1.46	1.49	....	1.59
July 25, 1944	....	....	.32	.35	.38	.38	.43	.44	.44	.45	....	.68
July 25, 1944	....	....	.45	.50	.50	.50	.51	.53	.55	.56	....	.58
July 25, 1944	....	....	.45	.45	.45	.45	.48	.48	.48	.48	....	.48
Aug. 1, 1944	.58	.83	.92	.95	1.00	1.02	1.03	1.05	1.07	1.10	....	1.15
Aug. 2, 1944	.14	.28	.38	.46	.61	.73	.76	.77	.77	.77	....	.77
Aug. 21, 1944	.22	.34	.47	.52	.64	.85	.96	1.00	1.23	1.66	....	1.69
Sept. 20, 1944	....	....	.50	.60	.85	.96	1.20	1.37	1.68	1.71	....	1.72
Sept. 27, 1944	.25	.44	.50	.55	.61	.65	.67	.81	.86	1.11	....	1.42
Oct. 2, 1944	.25	.36	.44	.48	.52	.56	.60	.66	.71	.75	....	.77
Nov. 8, 1944	.28	.36	.38	.39	.42	.42	.46	.50	.59	.64	....	.70
March 24-25, 1945	....	....	.40	....	.45	.50	.63	....	....	.84	....	.96
April 12, 1945	.17	.27	.33	.40	.46	.55	.72	.78	.87	.97	....	1.02
May 27, 1945	.82	1.31	1.63	1.67	1.69	1.70	1.70	1.70	1.70	1.70	....	1.70
June 7, 1945	.38	.67	.85	.97	1.18	1.49	1.56	1.67	1.73	1.92	....	2.12
June 24, 1945	.24	.47	.64	.84	1.20	1.58	1.71	1.78	1.85	1.92	....	1.98
June 30, 1945	.24	.40	.55	.66	.86	.86	.87	.87	.87	.88	....	.88
June 30, 1945	.43	.58	.60	.62	.66	.67	.67	.67	.67	.67	....	.67
June 30, 1945	.40	.43	.46	.47	.47	.47	.47	.47	.47	.47	....	.47
Aug. 5, 1945	.24	.45	.49	.51	.53	.54	.54	.55	.57	.59	....	.70
Aug. 11, 1945	.43	.78	.97	.99	.99	.99	.99	1.00	1.00	1.00	....	1.00
Sept. 21, 1945	.29	.50	.63	.69	.72	.76	.77	.77	.96	.97	....	.97
Sept. 21, 1945	.43	.77	1.01	1.21	1.39	1.67	1.81	1.90	1.90	1.90	....	2.02
Sept. 28, 1945	.24	.40	.53	.56	.67	.89	.89	1.00	1.03	1.06	....	1.14
May 9, 1946	.32	.48	.62	.66	.67	.67	.67	.67	.67	.72	....	.74
June 1, 1946	.40	.64	.75	.78	.80	.86	.87	.94	1.05	1.07	....	1.07
July 20, 1946	.34	.66	.91	1.01	1.05	1.13	1.16	1.17	1.18	1.18	....	1.18
July 27, 1946	.37	.64	.69	.72	.72	.72	.72	.72	.72	.72	....	.72
July 27, 1946	.30	.55	.66	.76	.85	.88	.94	1.02	1.19	1.27	....	1.38
Aug. 5, 1946	.24	.30	.30	.30	.52	.57	.57	.57	.57	.57	....	.57
Oct. 17, 1946	.17	.35	.44	.46	.62	.83	1.01	1.09	1.29	1.48	....	1.99
June 5, 1947	.17	.24	.33	.40	.53	.66	.74	.93	1.02	1.06	....	1.09
June 30, 1947	.20	.35	.43	.48	.54	.54	.54	.55	.55	.55	....	.55
Sept. -, 1947	....	....	.64	....	.89	.99	1.07	....	....	1.40	....	1.67
Oct. 4, 1947	.20	.31	.38	.41	.46	.50	.52	.57	.68	.72	....	.81
May 1, 1948	.25	.40	.57	.71	.97	1.17	1.26	1.42	1.50	1.57	....	1.64
June 17, 1948	.43	.83	.99	1.00	1.02	1.02	1.02	1.02	1.02	1.03	....	1.04
June 20, 1948	.25	.32	.34	.35	.36	.38	.39	.41	.47	.50	....	.55
July 15, 1948	.26	.34	.37	.40	.42	.42	.48	.50	.52	.52	....	.53
July 19, 1948	.35	.60	.78	.93	1.25	1.83	2.07	2.11	2.15	2.16	....	2.19
Aug. 26, 1948	.46	.73	.87	.98	1.06	1.09	1.16	1.46	1.49	1.51	....	1.54
Aug. 27, 1948	.44	.77	1.08	1.39	1.70	1.78	1.78	1.79	1.79	1.79	....	1.79
Sept. 8, 1948	.33	.57	.66	.77	.87	1.03	1.09	1.11	1.14	1.14	....	1.25
Oct. 30, 1948	.16	.32	.35	.35	.35	.37	.38	.38	.38	.39	....	.40
May 8, 1949	.35	.64	.86	.97	1.02	1.02	1.02	1.02	1.02	1.03	....	1.05
May 21, 1949	.32	.53	.66	.69	.72	.92	.98	.99	.99	.99	....	.99
June 1, 1949	.15	.25	.37	.46	.55	.61	.64	.68	.78	.84	....	.89
June 21, 1949	.29	.36	.40	.47	.60	.71	1.03	1.27	1.33	1.36	....	1.43
July 4, 1949	.27	.48	.54	.56	.57	.57	.57	.57	.57	.57	....	.57
July 18, 1949	.46	.84	1.11	1.37	1.49	1.51	1.51	1.51	1.51	1.51	....	1.51
July 25, 1949	.32	.59	.66	.66	.66	.66	.66	.74	.74	.74	....	.74
July 29, 1949	.23	.41	.52	.62	.64	.64	.65	.65	.66	.66	....	.66
Sept. 12, 1949	.35	.50	.55	.65	1.02	1.06	1.15	1.20	1.25	1.30	....	1.31
Sept. 17, 1949	.42	.54	.59	.63	.68	.70	.70	.70	.70	.82	....	1.35
Sept. 17, 1949	.24	.29	.35	.41	.43	.47	.73	.77	.80	.83	....	1.65
Sept. 18, 1949	.25	.47	.70	.76	.83	.90	.91	1.28	1.30	1.30	....	1.65
Oct. 20, 1949	.28	.46	.65	.78	.86	1.01	1.03	1.08	1.11	1.12	....	1.12
Oct. 21, 1949	.38	.41	.49	.51	.63	.76	1.04	1.35	1.41	1.62	....	1.62
Kansas City (Municipal Airport)												
May 15, 1943	.12	.23	....	.35	.38	.40	.40	.40	.40	.40	....	.40
May 17, 1943	.18	.25	....	.28	.29	.35	.40	.42	.44	.47	....	.51
June 3, 1943	.27	.33	....	.37	.38	.38	1.04	1.34	1.38	.38	....	.38
June 8, 1943	.21	.38	....	.62	.78	.86	1.08	1.34	1.41	1.50	....	1.76
June 10, 1943	.36	.53	....	.67	.78	.81	.85	.92	.97	.98	....	.98
June 15, 1943	.17	.26	....	.37	.48	.65	.74	.87	.90	.94	....	.95
June 28, 1943	.22	.36	....	.57	.65	.74	.80	.82	.83	.85	....	.91
July 30, 1943	.34	.55	....	.72	.80	.80	.81	.81	.81	.81	....	.81
March 3, 1944	.29	.47	.50	.53	.65	.65	.65	.65	.66	.66	....	.67
March 14-15, 1944	.15	.26	.33	.41	.52	.70	.89	1.02	1.15	1.43	....	1.63
April 21-22, 1944	.33	.52	.64	.74	1.00	1.54	1.80	2.17	2.49	2.67	....	3.01
April 22, 1944	.57	1.01	1.23	1.35	1.47	1.51	1.55	1.66	1.95	2.17	....	2.21
April 30, 1944	.26	.31	.33	.34	.35	.36	.37	.37	.37	.37	....	.37
May 21, 1944	.23	.43	.61	.75	.90	.95	1.05	1.21	1.34	1.45	....	1.76
May 27, 1944	.24	.33	.35	.37	.38	.38	.38	.38	.38	.38	....	.38
May 27, 1944	.24	.40	.51	.59	.60	.60	.60	.60	.60	.60	....	.60
June 12, 1944	.21	.29	.33	.36	.56	.66	.68	.68	.68	.68	....	.68
June 18, 1944	.44	.64	.74	.89	1.03	1.07	1.10	1.10	1.12	1.14	....	1.14
July 25, 1944	.16	.26	.33	.42	.59	.67	.79	.87	.91	.96	....	1.32
Aug. 4-5, 1944	.25	.32	.38	.42	.49	.57	.66	.82	.83	.84	....	.85
Aug. 15-16, 1944	.21	.31	.42	.60	.77	.81	.89	1.02	1.08	1.11	....	1.24
Aug. 20, 1944	.27	.51	.70	.77	.86	1.02	1.21	1.26	1.32	1.34	....	1.39
Sept. 27, 1944	.15	.27	.36	.43	.54	.60	.65	.75	.85	.90	....	.98
March 24, 1945	.36	.40	.43	.43	.45	.48	.55	.52	.54	.55	....	.60
May 2, 1945	.30	.33	.33	.33	.33	.33	.33	.33	.33	.33	....	.33
May 14, 1945	.19	.31	.33	.43	.48	.56	.60	.60	.60	.6060
May 25, 1945	.25	.33	.36	.37	.38	.40	.42	.46	.48	.4950

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EXCESSIVE SHORT DURATION RAINFALL

Table 14-Continued

Maximum precipitation in inches (5 to 180 minutes)													Maximum precipitation in inches (5 to 180 minutes)														
Station and date		5	10	15	20	30	45	60	80	100	120	150	180	Station and date		5	10	15	20	30	45	60	80	100	120	150	180
MISSOURI-Continued																											
St Louis-Continued																											
Oct. 21, 1943	.20	.3337	.38	.41	.42	.42	.42	.42	.42	.43	.43	June 23, 1947	.27	.33	.43	.52	.55	.57	.60	.65	.78	.83	1.07	
April 22, 1944	.32	.49	.67	.76	.82	1.01	1.40	1.59	1.67	1.67	....	1.86	June 27, 1947	.23	.25	.28	.37	.54	.68	.95	1.18	1.18	1.18	....	1.18
May 23, 1944	.45	.63	.72	.83	.98	1.01	1.08	1.09	1.09	1.17	....	1.23	June 30, 1947	.26	.36	.44	.48	.50	.57	.59	.60	.60	.63	....	.74
July 25-26, 1944	.32	.48	.54	.67	.81	1.17	1.43	1.46	1.47	1.49	....	1.58	July 15, 1947	.26	.36	.56	.60	.95	1.27	1.70	1.93	2.05	2.23	....	2.28
Sept. 11, 1944	.50	.87	.94	.96	.98	.99	1.00	1.02	1.09	1.13	....	1.56	July 17-18, 1947	.27	.38	.44	.59	.71	.86	.95	1.08	1.40	1.42	....	1.77
March 29, 1945	.21	.38	.49	.56	.59	.61	.65	.72	.78	.78	....	.80	Aug. 25, 1947	.27	.44	.52	.55	.61	.61	.61	.61	.61	.64	....	.66
April 12, 1945	.30	.40	.45	.48	.50	.57	.64	.85	.95	1.08	....	1.31	Sept. 11, 1947	.29	.50	.67	.76	.95	1.06	1.12	1.39	1.59	1.62	....	1.65
May 14, 1945	.47	.59	.69	.94	1.03	1.23	1.65	2.06	2.19	2.32	....	2.42	Sept. 21, 1947	.18	.29	.39	.44	.50	.60	.65	.70	.80	.92	....	1.12
June 7, 1945	.25	.39	.49	.51	.61	.70	.73	.78	.82	.87	....	1.04	Oct. 25, 1947	.28	.54	.77	1.00	1.41	1.78	2.13	2.27	2.34	2.35	....	2.38
June 16, 1945	.20	.38	.42	.46	.54	.58	.76	.78	.79	.80	....	.80	March 21, 1948	.20	.33	.41	.46	.59	.63	.65	.73	.75	.75	....	.76
June 27, 1945	.24	.45	.59	.62	.62	.64	.80	.80	.80	.80	....	.80	May 3, 1948	.26	.36	.39	.40	.43	.46	.47	.47	.47	....	.47	
June 29, 1945	.32	.53	.64	.66	.69	.69	.69	.69	.69	.69	....	.69	May 10, 1948	.25	.46	.64	.74	.85	.95	.99	1.06	1.14	1.19	....	1.20
Aug. 11, 1945	.24	.46	.63	.95	1.25	1.54	1.78	1.85	2.25	2.45	....	2.49	June 5, 1948	.25	.37	.44	.46	.46	.47	.47	.47	.48	....	.48	
Aug. 21, 1945	.26	.48	.66	.86	1.18	1.37	1.41	1.43	1.47	1.52	....	1.57	June 14, 1948	.36	.65	.79	.88	.98	1.02	1.07	1.09	1.10	1.10	....	1.17
Sept. 9, 1945	.20	.31	.32	.33	.36	.52	.55	.58	.59	.59	....	.61	June 17, 1948	.25	.37	.43	.51	.75	.88	.88	.89	.89	....	.89	
Sept. 21, 1945	.38	.67	.76	.84	.92	.92	.94	.96	.97	.98	....	.98	June 18, 1948	.23	.35	.47	.59	.69	.73	.73	.73	.73	....	.77	
Sept. 27, 1945	.28	.43	.53	.58	.59	.59	.61	.62	.62	.63	....	.79	June 18, 1948	.25	.39	.55	.66	.95	1.31	1.50	1.50	1.51	1.51	....	1.73
May 10, 1946	.32	.43	.44	.44	.44	.44	.49	.49	.52	.53	....	.65	June 21, 1948	.25	.47	.65	.66	.67	.69	.71	.71	.71	.74	....	1.38
June 1, 1946	.50	.77	.95	1.08	1.36	1.61	1.68	1.73	1.77	1.84	....	1.94	June 25, 1948	.35	.54	.56	.58	.62	.65	.67	.67	.67	....	.67	
June 19, 1946	.38	.49	.52	.56	.57	.58	.59	.61	.63	.63	....	.63	July 18, 1948	.22	.36	.44	.56	.68	.69	.70	.70	.71	.72	....	.80
July 20, 1946	.19	.29	.32	.40	.48	.50	.52	.56	.60	.67	....	.77	July 26, 1948	.11	.20	.28	.38	.51	.56	.60	.66	.73	.76	....	.88
Aug. 3, 1946	.35	.58	.77	.92	1.04	1.07	1.09	1.21	1.28	1.28	....	1.30	Aug. 28, 1948	.23	.39	.52	.54	.68	.79	.88	.90	.90	....	.92	
Aug. 5, 1946	.39	.66	.91	1.07	1.22	1.32	1.45	1.66	2.12	2.26	....	2.28	Sept. 7, 1948	.26	.48	.59	.75	1.08	1.22	1.68	1.84	1.85	2.06	....	2.37
Aug. 14, 1946	.39	.66	.82	1.13	1.54	1.85	1.92	2.38	2.76	2.97	....	3.63	Oct. 31, 1948	.31	.39	.43	.45	.61	.82	.87	1.12	1.15	1.15	....	1.15
Aug. 15, 1946	.41	.75	1.06	1.36	2.00	2.18	2.21	2.68	3.11	3.14	3.90	Nov. 1, 1948	.18	.30	.40	.48	.63	.78	.88	.94	1.00	1.05	1.14	1.21	
Aug. 16, 1946	.24	.36	.52	.62	.67	.81	.84	1.11	1.18	1.51	1.74	May 24, 1949	.31	.46	.49	.51	.53	.58	.65	.69	.75	.80	.8495	
Sept. 1, 1946	.12	.22	.32	.40	.42	.43	.43	.43	.43	.43	....	.43	May 27, 1949	.27	.41	.52	.54	.55	.56	.56	.56	.56	.56	....	.56
Oct. 31, 1946	.17	.30	.38	.42	.49	.52	.52	.56	.64	.68	....	.81	June 2, 1949	.15	.28	.36	.39	.47	.60	.60	.64	.65	.66	....	.67
Nov. 2, 1946	.24	.34	.43	.46	.54	.63	.72	.76	.88	.93	1.11	June 3, 1949	.25	.47	.54	.65	.72	.72	.74	.75	.76	.77	.7980	
Jan. 29, 1947	.36	.44	.53	.58	.62	.68	.75	.79	.82	1.03	....	1.18	June 10, 1949	.40	.66	.79	.81	.81	.81	.81	.81	.81	.81	....	.81
April 29, 1947	.30	.36	.43	.45	.46	.48	.49	.50	.59	.6162	June 23, 1949	.34	.59	.87	1.02	1.23	1.23	1.47	1.51	1.53	1.53	1.60	1.62	
June 29, 1947	.24	.36	.40	.44	.48	.49	.51	.52	.52	.52	....	.53	June 24, 1949	.26	.36	.36	.36	.36	.36	.36	.36	.37	.37	....	.37
June 30, 1947	.35	.61	.89	.94	.96	1.25	1.39	1.44	1.47	1.49	....	2.04	June 26, 1949	.16	.28	.42	.43	.53	.58	.60	.67	.68	.68	....	.69
July 20, 1947	.22	.29	.35	.40	.46	.47	.47	.48	.48	.48	....	.48	July 6, 1949	.25	.48	.55	.56	.56	.59	.60	.79	.85	.86	....	.86
Aug. 20, 1947	.15	.29	.35	.47	.60	.67	.73	.75	.76	.76	....	.76	July 6, 1949	.23	.28	.36	.43	.45	.45	.45	.45	.45	.45	....	.45
Oct. 24, 1947	.33	.57	.73	.79	.87	1.01	1.19	1.31	1.38	1.43	....	1.71	Sept. 6, 1949	.22	.40	.53	.62	.65	.80	.80	.80	.80	.80	....	.80
April 5, 1948	.28	.56	.56	.60	.60	.60	.60	.60	.60	.6061	Sept. 11, 1949	.18	.31	.43	.51	.61	.89	.98	1.03	1.09	1.09	1.11	1.11	
June 20, 1948	.16	.31	.35	.38	.42	.45	.47	.48	.49	.5353	Sept. 18, 1949	.24	.33	.42	.52	.60	.80	1.06	1.35	1.44	1.56	1.68	1.92	
June 22, 1948	.21	.32	.36	.38	.41	.52	.53	.53	.53	.54	....	.57	Oct. 11, 1949	.23	.36	.53	.59	.59	.61	.63	.64	.69	.77	....	.92
June 27, 1948	.24	.35	.36	.36	.37	.38	.38	.39	.40	.4041	Oct. 21, 1949	.31	.56	.69	.83	1.01	1.20	1.40	1.81	2.36	2.63	2.94	3.58	
June 28, 1948	.20	.31	.38	.42	.45	.61	.64	.66	.66	.6666	Dec. 21, 1949	.26	.35	.47	.57	.59	.67	.77	.82	.90	.98	1.09	1.13	
July 19, 1948	.23	.41	.56	.64	.70	.75	.78	.80	.81	.8282	MONTANA														
July 20, 1948	.24	.31	.32	.35	.35	.36	.39	.50	.51	.5158	Billings														
July 25, 1948	.41	.70	.82	.93	1.10	1.28	1.40	2.10	2.36	2.40	2.60	(Municipal Airport)														
Sept. 8, 1948	.32	.42	.53	.62	.68	.69	.97	1.04	1.05	1.05	1.05	1943--None														
May 21, 1949	.24	.36	.57	.57	.57	.57	.60	.61	.61	.61	....	.62	June 16, 1944	.21	.29	.38	.47	.57	.60	.61	.63	.63	.63	....	.64
June 14, 1949	.31	.35	.36	.36	.41	.43	.48	.55	.58	.60	....	.62	July 2, 1944	.27	.34	.38	.40	.42	.42	.42	.42	.42	....	.42	
July 8, 1949	.24	.36	.37	.38	.38	.41	.44	.44	.44	.44	....	.47	Aug. 3, 1944	.24	.30	.32	.33	.34	.35	.35	.35	.35	....	.36	
July 9, 1949	.19	.36	.50	.58	.62	.67	.68	.68	.68	.68	....	.68	July 12, 1945	.27	.30	.32	.32	.50	.51	.51	.51	.51	....	.51	
July 14, 1949	.18	.31	.40	.47	.67	.82	.87	.87	.87	.88	....	.88	July 17, 1945	.27	.35	.44	.46	.50	.50	.50	.50				

EXCESSIVE SHORT DURATION RAINFALL

Table 14-Continued

Station and date	Maximum precipitation in inches (5 to 180 minutes)												
	5	10	15	20	30	45	60	80	100	120	150	180	
NEBRASKA-Continued													
Lincoln-Continued													
May 13, 1945	.23	.40	.45	.51	.63	.68	.73	.75	.77	.78	....	.79	
May 13-14, 1945	.24	.26	.28	.34	.36	.42	.43	.62	.72	.72	....	.85	
May 27, 1945	.30	.46	.54	.57	.59	.60	.60	.60	.60	.60	....	.60	
June 23, 1945	.35	.51	.59	.60	.61	.76	.97	.98	.99	1.00	....	1.12	
June 26, 1945	.46	.68	.80	.91	1.20	1.34	1.36	1.36	1.36	1.36	....	1.36	
June 30, 1945	.34	.60	.82	1.05	1.53	1.81	2.04	2.12	2.19	2.23	....	2.25	
July 16, 1945	.12	.21	.29	.37	.47	.69	.81	.91	.96	1.02	....	1.09	
Aug. 3, 1945	.30	.38	.41	.43	.43	.44	.46	.48	.50	.52	....	.67	
Aug. 13, 1945	.46	.67	.82	.94	.97	.97	.97	.98	.98	.98	....	.98	
Sept. 26, 1945	.59	.71	.79	.80	.80	.80	.83	.84	.93	.94	....	.98	
Sept. 27, 1945	.41	.66	.70	.73	.75	.76	.77	.77	.77	.77	....	.77	
May 23, 1946	.26	.34	.38	.49	.55	.59	.60	.61	.62	.63	....	.64	
June 17-18, 1946	.43	.57	.58	.60	.64	.76	.77	.79	.82	.84	....	.85	
June 24, 1946	.31	.55	.74	.80	.89	.99	1.03	1.05	1.05	1.05	....	1.05	
Aug. 7, 1946	.15	.28	.42	.47	.57	.77	.80	.81	.81	.81	....	.81	
June 4, 1947	.23	.32	.35	.43	.60	.81	.90	.96	1.02	1.03	....	1.06	
June 12, 1947	.11	.24	.33	.41	.58	.71	.78	.80	1.00	1.08	....	1.34	
July 12-13, 1947	.63	1.08	1.50	1.73	1.85	1.88	1.88	1.88	1.88	1.88	....	1.88	
Aug. 16, 1947	.33	.64	.90	.98	1.08	1.14	1.15	1.15	1.15	1.15	....	1.15	
Aug. 24, 1947	.17	.29	.35	.38	.46	.47	.51	.57	.60	.61	....	.79	
Sept. 10, 1947	.26	.32	.34	.34	.34	.34	.46	.47	.47	.48	....	.49	
Oct. 8, 1947	.27	.47	.58	.66	.80	.91	.91	.92	.93	.93	....	.94	
April 24, 1948	.29	.48	.67	.79	.88	.90	.94	.99	1.03	1.05	....	1.06	
June 26-27, 1948	.17	.27	.38	.49	.57	.60	.63	.70	.73	.75	....	.76	
July 29, 1948	.29	.42	.47	.49	.51	.52	.78	.94	1.03	1.03	....	1.07	
Aug. 2, 1948	.29	.37	.39	.41	.42	.43	.44	.51	.55	.59	....	.65	
Aug. 15, 1948	.42	.76	.95	1.01	1.07	1.08	1.08	1.08	1.08	1.09	....	1.09	
Sept. 1, 1948	.29	.44	.55	.67	1.06	1.47	1.51	1.54	1.57	1.69	....	1.73	
Sept. 6, 1948	.17	.24	.34	.43	.48	.48	.49	.49	.49	.49	....	.57	
May 16, 1949	.26	.34	.37	.39	.41	.44	.44	.45	.45	.45	....	.45	
June 18, 1949	.32	.51	.70	.81	.91	.95	.98	1.03	1.04	1.05	....	1.06	
June 20, 1949	.18	.31	.46	.52	.54	.55	.55	.55	.55	.55	....	.55	
June 23, 1949	.35	.67	.88	1.08	1.76	2.06	2.15	2.25	2.26	2.26	....	2.29	
July 8, 1949	.28	.51	.73	.93	1.28	1.57	2.00	2.25	2.27	2.28	....	2.30	
July 13, 1949	.24	.45	.68	.82	.96	1.01	1.04	1.04	1.04	1.04	....	1.04	
Sept. 10, 1949	.13	.25	.36	.47	.65	.73	.77	.84	.96	1.05	....	1.12	
Sept. 10, 1949	.21	.34	.42	.47	.64	.68	.68	.68	.68	.68	....	.68	
Oct. 6, 1949	.22	.37	.46	.49	.77	.80	.83	.83	.83	.83	....	.83	
Norfolk													
* 1945	....	....	....	....	....	....	....	....	....	....	....	....	....
June 28, 1946	....	....	.37	....	.60	.65	.68	.75	.78	.78	....	.78	
June 24, 1947	....	....	....	....	.56	....	.58	....	....	....	....	....
Oct. 11, 1947	....	....	.35	....	.43	....	.77	....	....	.93	....	....
July 28-29, 1948	....	....	.65	....	.81	....	.91	....	....	1.05	....	....
Aug. 10, 1948	....	....	....	....	....	....	.94	....	....	1.03	....	....
Sept. 24, 1948	....	....	1.00	....	1.27	....	1.38	....	....	1.46	....	....
† 1949	....	....	....	....	....	....	....	....	....	....	....	....	....
North Platte													
May 30, 1943	.24	.39	....	.61	.78	.96	1.00	1.17	1.17	1.18	....	1.18	
June 9-10, 1943	.31	.52	....	.74	.81	.94	.96	1.03	1.05	1.07	....	1.07	
June 12, 1943	.22	.38	....	.54	.64	.68	.68	.69	.69	.69	....	.70	
May 14, 1944	.36	.57	.68	.73	.82	.86	.87	.87	.87	.87	....	.87	
June 13, 1944	.16	.34	.44	.50	.61	.64	.64	.74	.83	.84	....	.84	
July 4, 1944	.15	.26	.38	.46	.64	.64	.89	1.02	1.32	1.38	....	1.41	
Aug. 5, 1945	.38	.66	.96	1.13	1.30	1.35	1.36	1.37	1.37	1.39	....	1.46	
Sept. 7, 1945	.19	.32	.41	.45	.51	.53	.53	.56	.56	.66	....	.93	
June 17, 1946	.20	.31	.37	.48	.66	.78	.80	.88	.89	.89	....	.90	
June 24, 1946	.30	.38	.39	.39	.40	.40	.40	.40	.40	.40	....	.40	
July 14, 1946	.21	.31	.40	.45	.49	.49	.50	.51	.51	.51	....	.51	
Oct. 4, 1946	.21	.36	.45	.51	.74	.94	1.09	1.27	1.52	1.74	....	2.58	
July 13, 1947	.44	.67	1.03	1.16	1.52	1.77	1.80	1.80	1.80	1.80	....	1.80	
July 21, 1947	.23	.35	.44	.47	.51	.56	.59	.64	.66	.67	....	.67	
May 29, 1948	.26	.41	.59	.80	.96	.98	.99	.99	.99	1.05	....	1.14	
July 28, 1949	.34	.53	.61	.64	.69	.77	.78	.79	.94	1.01	....	1.11	
Aug. 14, 1948	.27	.45	.58	.63	.80	.82	.82	.82	.82	.82	....	.82	
Sept. 5, 1948	.16	.30	.38	.42	.52	.55	.58	.58	.59	.59	....	.60	
June 12, 1949	.25	.47	.59	.72	.83	.89	.91	.93	.95	.99	....	1.04	
July 5, 1949	.60	.85	.97	1.04	1.08	1.10	1.10	1.33	1.80	2.04	....	2.54	
July 23, 1949	.26	.32	.40	.42	.42	.42	.42	.42	.42	.42	....	.42	
Sept. 6, 1949	.27	.40	.62	.71	.80	.84	.86	.92	.96	.96	....	.97	
Oct. 9, 1949	.25	.36	.50	.64	.73	.87	.97	1.02	1.03	1.03	....	1.03	
Omaha													
(Municipal Airport)													
May 15, 1943	.33	.55	....	.78	.81	.83	.87	.94	1.05	1.13	....	1.24	
June 2, 1943	.36	.45	....	.50	.82	1.05	1.09	1.20	1.22	1.22	....	1.27	
June 27, 1943	.29	.43	....	.58	.86	.96	.98	1.00	1.04	1.08	....	1.08	
July 18, 1943	.19	.34	....	.50	.59	.70	.92	1.10	1.17	1.22	....	1.26	
July 20, 1943	.29	.39	....	.44	.48	.49	.70	.85	.86	.86	....	.87	
Aug. 11-12, 1943	.29	.49	....	.62	.63	.63	.63	.64	.65	.65	....	.65	
May 19, 1944	.28	.44	.47	.51	.55	.57	.57	.59	.59	.59	....	.59	
June 4, 1944	.39	.41	.41	.45	.52	.59	.60	.60	.60	.60	....	.60	
June 12-13, 1944	.34	.47	.50	.51	.53	.55	.55	.58	.59	.60	....	1.10	
June 12-13, 1944	.26	.39	.47	.57	.67	.79	.89	1.00	1.04	1.05	....	1.07	
July 23, 1944	.27	.35	.37	.38	.38	.40	.40	.40	.40	.40	....	.40	
July 25, 1944	.24	.36	.48	.64	.75	.79	.87	.91	.92	.95	....	1.04	
Aug. 1, 1944	.23	.37	.42	.47	.62	.68	.70	.71	.71	.71	....	.71	
Aug. 29-30, 1944	.24	.25	.40	.41	.42	.45	.47	.64	.73	.84	....	1.15	
April 22-23, 1945	.18	.24	.35	.42	.54	.61	.72	.74	.77	.81	....	.98	
May 31, 1945	.18	.34	.42	.46	.46	.46	.47	.48	.49	.49	....	.49	
July 4-5, 1945	.34	.60	.74	.84	1.01	1.05	1.23	1.25	1.26	1.26	....	1.28	
July 27, 1945	.26	.36	.36	.39	.46	.54	.56	.56	.56	.57	....	.57	
Aug. 10, 1945	.18	.34	.51	.52	.52	.54	.54	.55	.55	.62	....	.81	
Sept. 26, 1945	.22	.30	.31	.32	.33	.34	.47	.69	.70	.81	....	.86	
Sept. 27, 1945	.38	.53	.55	.56	.60	.89	1.02	1.23	1.26	1.29	....	1.37	
May 14, 1946	.21	.41	.49	.50	.50	.51	.51	.51	.51	.52	....	.59	
June 17, 1946	.26	.42	.48	.52	.68	.79	.82	.88	.97	1.32	....	1.47	
June 18, 1946	.24	.41	.62	.77	1.07	1.26	1.42	1.50	1.58	1.65	....	1.68	
June 24, 1946	.24	.41	.51	.55	.66	.80	.84	.91	.93	.94	....	.94	
June 28, 1946	.21	.35	.44	.61	.72	.78	.83	.89	.95	1.00	....	1.04	
July 6, 1946	.25	.38	.51	.60	.62	.62	.62	.63	.63	.63	....	.63	
Aug. 5, 1946	.15	.27	.35	.40	.46	.49	.56	.64	.70	.73	....	.77	
Aug. 7, 1946	.20	.28	.32	.37	.47	.71	.89	.95	.96	.97	....	.99	
Aug. 16, 1946	.14	.25	.35	.38	.48	.51	.52	.53	.54	.55	....	.56	
Sept. 4, 1946	.41	.52	.62	.78	.92	1.09	1.32	1.36	1.37	1.43	....	1.52	
Oct. 10, 1946	.37	.48	.57	.58	.70	.73	.77	.81	.83	.87	....	.88	
April 9, 1947	.17	.27	.37	.44	.52	.61	.72	.83	.90	.96	....	1.11	
May 14, 1947	.30	.39	.39	.39	.44	.46	.59	.89	.92	.92	....	.99	
June 1, 1947	....	....	.35	....	.48	.58							

EXCESSIVE SHORT DURATION RAINFALL

Table 14-Continued

Station and date	Maximum precipitation in inches (5 to 180 minutes)													Station and date	Maximum precipitation in inches (5 to 180 minutes)												
	5	10	15	20	30	45	60	80	100	120	150	180	5		10	15	20	30	45	60	80	100	120	150	180		
NEW JERSEY-Continued																											
Atlantic City-Cont'd																											
Sept. 14, 1944	.15	.25	.34	.39	.52	.68	.89	1.12	1.34	1.58	....	2.31														
Oct. 20, 1944	.15	.22	.30	.39	.49	.70	.78	.87	1.10	1.39	....	1.76														
July 2, 1945	.22	.37	.46	.48	.49	.50	.50	.51	.54	....	....	.71													
July 23, 1945	.42	.80	1.08	1.30	1.67	2.25	2.54	2.59	2.68	3.12	....	3.28														
Aug. 15, 1945	.60	.92	1.15	1.17	1.24	1.31	1.32	1.32	1.32	1.32	....	1.32														
Sept. 29, 1945	.34	.51	.52	.53	.53	.53	.53	.57	.59	.65	....	1.06														
May 12, 1946	.25	.38	.40	.41	.44	.47	.55	.58	.61	.64	....	.85													
June 11-12, 1946	.24	.34	.39	.41	.52	.66	.70	.76	.78	.79	....	.81													
June 18, 1946	.26	.44	.55	.55	.56	.56	.56	.56	.56	.56	....	.56													
July 2, 1946	.32	.57	.77	1.05	1.52	1.77	2.04	2.15	2.19	2.21	....	2.45														
Aug. 13, 1946	.41	.61	.66	.71	.77	.78	.78	.78	.78	.78	....	.78													
Aug. 26, 1946	.17	.28	.38	.49	.69	.78	.79	.85	.85	.85	....	.85													
May 25, 1947	.21	.29	.42	.44	.45	.40	.50	.51	.53	.53	....	.57													
June 6, 1947	.27	.39	.52	.55	.56	.57	.57	.58	.70	.74	....	.74													
Aug. 20, 1947	.20	.31	.32	.32	.33	.34	.34	.34	.34	.36	....	.37													
Aug. 26, 1947	.38	.67	.90	1.16	1.45	1.60	1.69	1.72	1.75	1.77	....	1.85														
Sept. 4, 1947	.30	.36	.36	.36	.36	.36	.36	.36	.36	.36	....	.36													
May 13, 1948	.28	.50	.65	.75	.98	1.08	1.23	1.50	1.56	1.67	....	1.91														
June 3, 1948	.15	.26	.32	.33	.50	.55	.57	.58	.59	.60	....	.62													
July 6, 1948	.38	.46	.47	.48	.48	.49	.49	.49	.49	.49	....	.49													
July 13, 1948	.18	.30	.40	.50	.54	.56	.56	.56	.61	.69	....	.81													
July 23, 1948	.27	.53	.67	.69	.71	.73	.74	.78	.81	.85	....	.92													
Aug. 20, 1948	.40	.69	.97	1.19	1.46	2.03	2.89	3.25	3.54	3.93	....	4.38														
July 12, 1949	.18	.29	.42	.54	.81	1.03	1.19	1.36	1.52	1.70	....	1.84														
Aug. 5, 1949	.20	.38	.50	.58	.65	.89	.96	1.02	1.09	1.16	....	1.24														
Oct. 31, 1949	.28	.47	.57	.71	1.03	1.19	1.33	1.40	1.45	1.48	....	1.53														
Nov. 1-2, 1949	.13	.20	.29	.35	.49	.70	.84	1.07	1.24	1.30	....	1.39														
Trenton																											
June 17, 1943	.27	.43	....	.59	.65	.70	.70	1.01	1.29	1.32	....	1.66													
Aug. 4, 1943	.26	.30	....	.34	.37	.38	.41	.41	.43	.43	....	.43													
Aug. 14, 1943	.39	.73	....	.93	.94	.95	.96	.96	.97	.97	....	.98													
Oct. 16, 1943	.36	.39	....	.42	.42	.45	.51	.56	.56	.57	....	.57													
Nov. 9, 1943	.19	.32	....	.46	.51	.59	.66	.71	.72	.73	....	.77													
June 10, 1944	.23	.37	.54	.61	.75	.97	1.40	1.64	1.75	1.77	....	1.78														
June 18, 1944	.30	.48	.50	.51	.52	.53	.57	.87	.87	.87	....	.87													
June 19, 1944	.23	.38	.48	.52	.54	.54	.58	.59	.59	.59	....	.59													
Sept. 1, 1944	.32	.48	.51	.52	.52	.52	.53	.53	.53	.53	....	.53													
Sept. 13, 1944	.20	.30	.46	.54	.64	.80	.93	1.14	1.18	1.23	....	1.44														
May 18, 1945	.28	.34	.37	.39	.40	.42	.54	.54	.54	.54	....	.55													
June 19, 1945	.39	.48	.48	.48	.48	.48	.50	.51	.52	.52	....	.70													
June 21, 1945	.22	.33	.39	.44	.50	.53	.55	.58	.67	.75	....	.88													
July 2, 1945	.48	.85	1.16	1.34	1.38	1.45	1.58	1.65	1.66	1.69	....	1.69														
July 5, 1945	.21	.27	.33	.41	.53	.77	.78	.79	.80	.80	....	.84													
July 15, 1945	.22	.31	.32	.33	.33	.35	.38	.41	.44	.47	....	.55													
July 17, 1945	.28	.51	.73	.86	.93	.95	.96	.99	1.02	1.03	....	1.04														
July 18, 1945	.25	.47	.51	.53	.55	.55	.55	.55	.55	.55	....	.59													
Aug. 25, 1945	.29	.46	.48	.50	.52	.54	.55	.61	.66	.75	....	.84													
Sept. 11, 1945	.51	.81	.88	.88	.88	.88	.88	.88	.88	.89	....	1.09														
Sept. 14, 1945	.40	.55	.65	.73	.74	.75	.75	1.06	1.09	1.10	....	1.32														
May 16, 1946	.21	.35	.41	.54	.68	.77	.86	.87	1.09	1.10	....	1.15														
June 11, 1946	.28	.44	.50	.66	.78	.96	1.10	1.13	1.15	1.16	....	1.23														
July 22, 1946	.33	.53	.56	.58	.63	.65	.68	.80	.87	.90	....	1.07														
July 22, 1946	.26	.32	.53	.60	.61	.64	.68	.69	.71	.74	....	.84													
Sept. 24, 1946	.29	.53	.72	.83	.94	.99	1.03	1.10	1.15	1.19	....	1.23														
May 29, 1947	.23	.35	.42	.49	.57	.60	.65	.70	.75	.79	....	.81													
June 20, 1947	.34	.46	.61	.75	.81	.85	.86	.87	.92	1.00	....	1.07														
Aug. 16, 1947	.23	.44	.59	.76	1.02	1.54	1.98	2.10	2.15	2.18	....	2.20														
Aug. 20, 1947	.18	.33	.44	.52	.65	.73	.74	.75	.78	.82	....	.92													
June 26, 1947	.21	.24	.30	.37	.54	.61	.63	.64	.65	.68	....	.77													
Oct. 29, 1947	.22	.43	.50	.61	.71	.91	1.06	1.11	1.12	1.16	....	1.19														
Aug. 25, 1948	.17	.22	.28	.36	.51	.55	.64	.66	.68	.71	....	.79													
June 12, 1948	.17	.33	.43	.58	.83	.98	1.14	1.35	1.64	1.79	....	2.01														
June 27, 1948	.15	.28	.40	.42	.43	.43	.43	.43	.43	.43	....	.43													
June 30, 1948	.18	.32	.48	.64	.68	.70	.71	.71	.71	.72	....	.83													
July 13, 1948	.27	.34	.40	.42	.45	.51	.55	.58	.62	.63	....	.66													
July 23, 1948	.28	.46	.50	.52	.66	.70	.72	.72	.73	.74	....	.74													
Aug. 20, 1948	.24	.32	.39	.43	.43	.43	.43	.43	.43	.44	....	.47													
July 17, 1949	.23	.45	.67	.85	1.20	1.53	2.05	2.12	2.17	2.25	....	2.28														
Sept. 5, 1949	.36	.56	.72	.79	.94	1.24	1.31	1.66	1.66	1.66	....	1.66														
NEW MEXICO																											
Albuquerque (Airport)																											
1943 through 1945----	None																										
July 19, 1944	.33	.51	.55	.57	.61	.65	.68	.68	.71	.71	....	.72													
Aug. 26, 1944	.18	.32	.42	.47	.55	.56	.57	.58	.58	.59	....	.61													
1947 and 1948--None																											
July 9, 1949	.23	.30	.58	.69	.77	.85	.85	.86	.87	.87	.88	.89															
* Roswell																											
Sept. 2, 1943	.26	.27	....	.29	.30	.30	.30	.30	.30	.30	.30	.30													
Aug. 24, 1944	.28	.50	.78	.99	1.29	1.36	1.50	1.52	1.52	1.52	....	1.52														
Oct. 15, 1944	.21	.40	.43	.43	.43	.43	.43	.43	.43	.43	....	.47													
July 1, 1945	.26	.47	.58	.65	.73	.80	.83	.84	.84	.84	....	.84													
Aug. 20, 1945	.27	.47	.62	.71	.79	.89	.90	.90	.90	.96	....	.96													
June 16, 1946	.16	.27	.38	.47	.58	.65	.66	.66	.66	.66	....	.66													
July 1, 1946	.31	.51	.55	.56	.57	.58	.59	.59	.59	.59	....	.63													
Aug. 27, 1946	.20	.30	.32	.36	.37	.38	.39	.44	.44	.45	....	.49													
Sept. 18, 1946	.21	.37	.53	.67	.96	1.37	1.53	1.59	1.60	1.60	....	1.61														
Oct. 4, 1946	.24	.31	.34	.36	.37	.38	.40	.40	.41	.41	....	.41													
1947--None																											
July 20, 1948	.32	.57	.66	.67	.76	.84	.84	.84	.84	.84	....	.84													
Aug. 12, 1948	.21	.38	.45	.47	.47	.48	.48	.48	.48	.48	....	.48													
June 5, 1949	.24	.40	.56	.63	.71	.74	.84	.88	.92	.95	....	.96													
June 6, 1949	.14	.24	.33	.41	.47	.52	.54	.54	.55	.55	....	.55													
June 10, 1949	.31	.53	.59	.60	.61	.65	.66	.70	.71	.72	....	.74													
July 12, 1949	.19	.39	.56	.69	.90	1.15	1.25	1.27	1.27	1.30	....	1.31														
July 27, 1949	.20	.27	.37	.45	.56	.59	.60	.60	.60	.60	....	.60													
NEW YORK																											
Albany (Municipal Airport)																											
Sept. 7, 1943	.29	.46	....	.51	.53	.53	.53	.53	.53	.53	....	.53													
June 19, 1944	.34	.44	....	.58	.67	.74	.76	.76	.82	.85	....	.90													
June 20, 1944	.30	.46	....	.60	.79	.94	1.00	1.06	1.11	1.20	....	1.26													
Aug. 17, 1944	.23	.33	....	.44	.46	.47	.47	.47	.47	.47	....	.47													
June 15, 1945	.26	.38	.41	.42	.60	.60	.66	.68	.68	.68	....	.69													
June 15, 1945	.28	.43	.47	.47	.48	.49	.51	.53	.55	.58	....	.59													
NEW YORK--Continued																											
Albany-Continued (Municipal Airport)																											
June 21, 1945	.35	.40	.45	.45	.46	.46	.46	.46	.46	.49	....	.53													
July 20, 1945	.45	.81	1.19	1.35	1.57	1.69	1.75	1.80	2.07	2.22	....	2.34														
Sept. 1-2, 1945	.21	.38	.45	.57	.67	.81	1.02	1.28	1.34	1.68	....	2.11														
June 27, 1946	.14	.24	.36	.45	.58	.73	.75	.78	.78	.78	....	.87													
July 21, 1946	.20	.33	.44	.50	.55	.57	.57	.59	.59	.59	....	.59													
Aug. 10, 1946	.24	.39	.44	.44	.45	.46	.46	.46	.46	.46	....	.46													
Oct. 12, 1946	.21	.31	.36	.38	.40	.43	.45	.48	.52	.57	....	.64													
June 25, 1947	.56	.67	.69	.69	.70	.70	.70	.70	.70	.70	....	.70													
July 5, 1947	.27	.36	.38	.38	.39	.39	.39	.39	.39	.39	....	.39													
July 18, 1947	.25	.38	.40	.40	.40	.40	.41	.67	.68	.68	....	.71													
June 29, 1948	.49																										

EXCESSIVE SHORT DURATION RAINFALL

Table 14-Continued

Station and date		Maximum precipitation in inches (5 to 180 minutes)											
		5	10	15	20	30	45	60	80	100	120	150	180
NEW YORK-Cont'd													
New York													
May 12, 1943	.20	.30	....	.36	.37	.39	.40	.55	.57	.59	.60	.61	
Aug. 10, 1943	.23	.35	....	.43	.67	.79	.93	1.01	1.04	1.06	1.06	1.06	
Sept. 15, 1943	.20	.30	....	.44	.51	.61	.67	.72	.76	.78	.82	.87	
Oct. 26, 1943	.17	.28	....	.48	.70	.83	.92	.98	1.11	1.17	1.32	1.37	
June 10, 1944	.28	.40	.44	.46	.47	.47	.48	.49	.51	.51	....	.82	
July 16, 1944	.22	.37	.41	.42	.44	.44	.45	.45	.45	.45	....	.45	
July 20, 1944	.37	.54	.63	.67	.72	.88	.89	.90	.90	.90	....	.90	
Aug. 16, 1944	.54	.76	.97	1.12	1.34	1.60	1.64	1.76	1.79	1.79	....	1.79	
Sept. 13, 1944	.48	.85	1.04	1.13	1.16	1.17	1.17	1.43	1.76	1.76	....	2.07	
Sept. 14, 1944	.18	.27	.33	.43	.61	.76	.95	1.18	1.33	1.70	....	2.39	
Oct. 14, 1944	.19	.31	.36	.39	.40	.40	.40	.45	.47	.47	....	.47	
June 13, 1945	.26	.42	.55	.57	.58	.59	.59	.59	.59	.59	....	.59	
June 19, 1945	.29	.51	.63	.74	.93	.96	.97	1.03	1.09	1.14	....	1.23	
June 21, 1945	.24	.31	.36	.46	.53	.56	.61	.72	.77	.80	....	.92	
July 17, 1945	.17	.30	.39	.44	.48	.51	.54	.60	.61	.64	....	1.03	
July 19, 1945	.27	.41	.44	.45	.47	.52	.54	.58	.60	.62	....	.69	
July 26, 1945	.18	.30	.40	.44	.54	.62	.63	.63	.63	.63	....	.63	
Sept. 14, 1945	.36	.66	.88	1.26	1.36	1.46	1.69	1.74	1.76	1.97	....	2.54	
May 27, 1946	.17	.25	.32	.41	.46	.54	.58	.62	.64	.67	....	.91	
June 11, 1946	.24	.32	.35	.37	.37	.38	.38	.39	.45	.47	....	.49	
July 23, 1946	.28	.40	.47	.52	.58	.66	.73	.96	1.13	1.24	....	1.35	
Aug. 19, 1946	.22	.30	.32	.35	.40	.45	.51	.52	.53	.60	....	.73	
Aug. 9, 1947	.48	.90	1.27	1.56	1.84	2.01	2.08	2.12	2.14	2.18	....	2.31	
Aug. 16, 1947	.29	.39	.42	.44	.46	.47	.47	.47	.47	.47	....	.47	
Aug. 16, 1947	.42	.76	1.01	1.14	1.34	1.40	1.43	1.48	1.49	1.49	....	1.49	
Aug. 26, 1947	.41	.74	.98	1.20	1.83	2.43	2.97	3.27	3.42	3.52	....	3.65	
Oct. 29, 1947	.25	.35	.37	.37	.38	.41	.46	.48	.52	.57	....	.70	
Nov. 12, 1947	.18	.33	.41	.46	.52	.59	.66	.75	.84	.93	....	1.16	
May 12, 1948	.14	.27	.38	.42	.48	.61	.66	.66	.66	.66	....	1.11	
May 12, 1948	.15	.26	.37	.43	.48	.61	.66	.66	.66	.66	....	1.11	
May 17, 1948	.37	.61	.74	.74	.75	.82	.83	.85	.85	.85	....	.85	
May 30, 1948	.18	.24	.35	.38	.43	.49	.65	.72	.82	.97	....	1.04	
June 19, 1948	.15	.26	.38	.45	.57	.66	.70	.76	.80	.83	....	.92	
June 24, 1948	.20	.31	.36	.51	.58	.82	1.00	1.16	1.18	1.19	....	1.28	
June 27, 1948	.34	.47	.58	.67	.76	.80	.80	.80	.80	.80	....	.80	
July 13, 1948	.29	.49	.55	.71	.78	.80	.88	1.24	1.34	1.38	....	1.42	
July 13, 1948	.21	.37	.42	.47	.53	.55	.88	1.24	1.34	1.38	....	1.42	
July 21, 1948	.30	.54	.66	.74	.97	1.20	1.37	1.82	2.27	2.47	....	2.84	
Aug. 3, 1948	.15	.26	.36	.41	.49	.72	.79	.84	.97	.98	....	1.00	
May 14, 1949	.39	.51	.53	.54	.55	.55	.55	.55	.55	.56	....	.56	
New York (La Guardia Field)													
July 16, 1947	.33	.60	.87	1.06	1.13	1.18	1.19	1.19	1.19	1.19	....	1.19	
July 22, 1947	.21	.34	.52	.64	.70	.81	.88	.89	.89	.89	....	.90	
Aug. 8, 1947	.27	.47	.62	.77	1.00	1.11	1.13	1.13	1.13	1.13	....	1.13	
Aug. 16, 1947	.24	.36	.48	.52	.67	.88	.92	.94	.95	.95	....	.97	
Oct. 26, 1947	.63	.91	.99	1.16	1.41	1.84	1.93	2.01	2.03	2.09	....	2.15	
Oct. 29, 1947	.37	.55	.73	.78	.84	.90	.92	.94	.95	.98	....	1.10	
May 17, 1948	.30	.38	.39	.39	.44	.46	.47	.47	.47	.47	....	.47	
May 30, 1948	.38	.54	.60	.63	.65	.69	.74	.80	.89	1.09	....	1.19	
June 12-13, 1948	.20	.34	.40	.52	.80	.89	1.00	1.07	1.13	1.20	....	1.30	
June 24, 1948	.26	.46	.56	.71	.89	1.03	1.10	1.18	1.24	1.35	....	1.43	
Aug. 12, 1948	.19	.24	.40	.45	.47	.49	.51	.53	.55	.56	....	.73	
Aug. 19, 1948	.22	.36	.40	.43	.50	.77	.85	.86	.86	.92	....	.96	
July 30, 1949	.50	.67	.73	.73	.77	.79	.79	.79	.79	.79	....	.79	
Sept. 5, 1949	.27	.47	.49	.50	.52	.55	.58	.60	.61	.62	....	.67	
* Oswego													
May 26, 1943	.13	.24	....	.40	.51	.69	.77	.83	.87	.88	.93	.97	
July 22, 1943	.38	.64	....	.94	.95	.96	.96	.96	.96	.96	.96	.96	
July 27, 1943	.26	.29	....	.34	.34	.34	.34	.34	.34	.34	.34	.34	
Aug. 13, 1943	.23	.30	....	.36	.37	.37	.50	.62	.63	.64	.69	.70	
Oct. 16, 1943	.46	.52	....	.57	.60	.63	.66	.67	.68	.69	.71	.73	
June 2, 1944	.17	.33	.48	.57	.65	.69	.73	.76	.77	.77	....	.77	
Sept. 14, 1944	.22	.40	.54	.61	.68	.74	.76	.80	.82	.83	....	.85	
Sept. 21, 1944	.33	.36	.38	.39	.39	.39	.39	.39	.39	.39	....	.39	
July 5, 1945	.29	.51	.65	.78	1.05	1.21	1.28	1.38	1.38	1.65	....	2.62	
July 10, 1945	.37	.63	.75	.76	.80	.82	.84	.85	.86	.86	....	.86	
July 14, 1945	.25	.37	.48	.49	.58	.93	1.07	1.13	1.15	1.16	....	1.17	
July 25, 1945	.24	.41	.46	.47	.47	.47	.47	.47	.47	.47	....	.47	
July 25, 1945	.24	.41	.46	.47	.47	.47	.47	.47	.47	.47	....	.47	
June 18, 1946	.26	.32	.33	.34	.34	.34	.35	.39	.43	.48	....	.69	
July 1, 1946	.22	.42	.52	.59	.67	.73	.77	.86	.91	.95	....	1.03	
Aug. 19, 1946	.16	.22	.37	.40	.42	.42	.42	.42	.42	.42	....	.42	
Sept. 29, 1946	.26	.42	.61	.62	.71	.73	.76	.78	.80	.90	....	1.23	
May 21, 1947	.50	.64	.70	.75	.77	.81	.86	.89	.90	.96	....	.99	
May 25, 1947	.24	.39	.48	.50	.54	.57	.61	.65	.67	.67	....	.67	
May 29, 1947	.39	.45	.47	.48	.48	.53	.55	.55	.55	.57	....	.87	
July 11, 1947	.29	.42	.49	.51	.56	.68	.73	.83	.85	.86	....	.86	
July 11, 1947	.29	.33	.40	.53	.69	.73	.75	.75	.75	.75	....	.75	
July 17, 1947	.32	.51	.64	.74	.88	.91	.91	.91	.92	.92	....	.92	
Aug. 9, 1947	.20	.29	.35	.37	.39	.42	.42	.42	.42	.42	....	.42	
Aug. 21, 1947	.17	.28	.41	.43	.46	.48	.51	.56	.59	.60	....	.64	
Sept. 2, 1947	.26	.43	.58	.66	.84	.92	.96	1.02	1.04	1.05	....	1.05	
July 27, 1948	.18	.31	.31	.33	.36	.36	.36	.36	.36	.36	....	.36	
Aug. 12, 1948	.28	.52	.64	.78	.84	.94	.94	.98	.98	1.00	....	1.01	
Rochester (Airport)													
June 2, 1943	.19	.27	....	.44	.65	.90	1.04	1.11	1.17	1.24	1.31	1.31	
July 14, 1943	.26	.32	....	.33	.35	.35	.35	.35	.35	.35	.35	.35	
July 21, 1943	.25	.37	....	.62	.76	.86	.94	.96	.96	.96	.96	.96	
July 29, 1943	.32	.39	....	.41	.41	.42	.42	.43	.43	.44	.44	.44	
Aug. 16, 1943	.22	.31	....	.36	.50	.50	.52	.55	.55	.55	....	.55	
Aug. 16, 1944	.31	.40	.46	.47	.49	.51	.54	.55	.55	.55	....	.55	
Aug. 17, 1944	.22	.34	.47	.61	.67	.83	.95	.95	1.03	1.25	....	1.31	
June 15, 1945	.15	.29	.36	.41	.50	.51	.52	.52	.53	.54	....	.55	
July 13, 1945	.23	.41	.54	.59	.60	.78	.81	.82	.82	.82	....	.82	
July 14, 1945	.15	.29	.38	.43	.53	.54	.56	.67	.80	.94	....	1.07	
July 19, 1945	.32	.43	.46	.47	.47	.48	.48	.48	.48	.48	....	.73	
July 22, 1945	.32	.45	.57	.63	.68	.79	.86	.97	1.04	1.08	....	1.09	
July 31, 1945	.40	.62	.71	.77	.79	.83	1.22	1.53	1.53	1.53	....	1.54	
Sept. 25, 1945	.27	.43	.48	.50	.51	.52	.52	.52	.52	.55	....	.55	
July 1, 1946	.39	.44	.50	.55	.59	.82	.89	.91	.95	.99	....	1.03	
Aug. 17, 1946	.38	.53	.54	.54	.56	.64	.67	.67	.73	.74	....	.74	
May 1, 1947	.22	.32	.40	.43	.45	.46	.53	.54	.54	.54	....	.55	
July 16, 1947	.50	.73	.88	1.08	1.23	1.52	1.80	1.83	1.83	1.83	....	1.83	
July 17, 1947	.36	.64	.91	1.03	1.08	1.10	1.10	1.10	1.10	1.10	....	1.10	
July 22, 1947	.12	.19	.27	.33	.49	.69	.86						

EXCESSIVE SHORT DURATION RAINFALL

Table 14-Continued

Station and date	Maximum precipitation in inches (5 to 180 minutes)													
	5	10	15	20	30	45	60	80	100	120	150	180		
NORTH CAROLINA-Cont'd														
Greensboro-Cont'd (Lindley Field)														
July 21, 1946	.51	.74	.93	1.14	1.35	1.38	1.38	1.38	1.38	1.54	....	1.69		
July 22, 1946	.37	.65	.86	.99	1.10	1.26	1.27	1.27	1.27	1.27	....	1.27		
1947--None														
June 14, 1948	.26	.51	.64	.67	.71	.79	.92	.93	.94	.94	....	.94		
June 15, 1948	.46	.81	1.14	1.25	1.26	1.27	1.27	1.27	1.27	1.27	....	1.27		
June 25, 1949	.27	.34	.35	.35	.35	.35	.35	.35	.35	.37	....	.37		
July 7, 1949	.33	.57	.76	.87	1.05	1.54	1.78	1.83	1.84	1.84	1.85	1.85		
July 17, 1949	.18	.32	.44	.49	.75	.82	.84	.84	.85	.85	.85	.85		
July 16, 1949	.22	.31	.33	.33	.34	.36	.39	.51	.53	.56	.59	.60		
July 18, 1949	.23	.37	.44	.46	.46	.53	.55	.59	.60	.61	.64	.66		
Aug. 2, 1949	.24	.35	.45	.48	.49	.49	.49	.49	.49	.49	.51	.52		
Aug. 15, 1949	.33	.62	.80	.94	1.25	1.79	2.15	2.39	2.46	2.60	2.67	2.90		
Aug. 15-16, 1949	.27	.46	.63	.73	.89	.98	.98	.98	1.06	1.11	1.20	1.22		
Aug. 23, 1949	.28	.40	.52	.64	.73	.79	.90	.92	1.05	1.08	1.10	1.10		
Sept. 16, 1949	.26	.38	.39	.39	.39	.39	.39	.39	.39	.39	.39	.39		
Oct. 31, 1949	.24	.35	.44	.53	.62	.69	.69	.70	.70	.70	.71	.71		
Hatteras														
May 3, 1943	.40	.58	....	.66	.66	.66	.66	.66	.66	.66	.66	.66		
July 6, 1943	.32	.50	....	.60	.62	.63	.64	.66	.67	.69	.72	.74		
Nov. 9, 1943	.46	.56	....	.77	1.07	1.15	1.25	1.31	1.35	1.37	1.37	1.42		
Sept. 14, 1944	.22	.41	.57	.76	1.11	1.43	1.66	1.90	2.15	2.41	....	3.13		
Sept. 18, 1944	.30	.58	.81	.97	1.31	1.65	1.80	2.56	2.63	2.77	....	3.31		
Oct. 13, 1944	.31	.51	.75	.94	1.11	1.20	1.31	1.32	1.32	1.32	....	1.32		
May 30, 1945	.47	.70	.76	.78	.78	.78	.79	.81	.86	.86	....	.89		
June 29, 1945	.24	.47	.64	.71	.83	.83	.84	.84	.85	.85	....	.85		
July 9, 1945	.37	.63	.79	.92	1.06	1.09	1.12	1.13	1.13	1.13	....	1.21		
Aug. 8, 1945	.42	.71	.88	.89	.89	.89	.89	.90	.90	.90	....	.90		
Feb. 19, 1946	.43	.60	.73	.78	.80	.84	.85	.93	.97	1.01	....	1.02		
April 12, 1946	.40	.80	1.03	1.13	1.24	1.26	1.29	1.36	1.36	1.36	....	1.36		
June 13, 1946	.23	.44	.62	.79	1.18	1.40	1.53	1.59	1.62	1.62	....	1.62		
June 14, 1946	.29	.47	.73	.84	1.23	1.58	1.63	1.64	1.64	1.64	....	1.64		
June 22, 1946	.26	.52	.66	.70	.73	.74	.74	.75	.75	.78	....	.87		
July 6, 1946	.47	.77	1.04	1.30	1.67	1.92	2.08	2.30	2.36	2.43	....	3.41		
July 10, 1946	.23	.40	.54	.74	1.10	1.64	2.04	2.25	2.37	2.43	....	2.45		
July 15, 1946	.26	.45	.64	.77	.84	.87	.88	.91	.91	.91	....	.91		
Aug. 7, 1946	.28	.52	.64	.91	1.07	1.14	1.23	1.28	1.41	1.45	....	1.48		
Aug. 12, 1946	.64	.90	.97	1.12	1.32	1.49	1.49	1.49	1.49	1.49	....	1.49		
Sept. 25, 1946	.46	.86	.89	.92	1.03	1.13	1.22	1.22	1.22	1.22	....	1.40		
Oct. 26, 1946	.39	.50	.55	.55	.69	.82	1.00	1.08	1.11	1.13	....	1.14		
June 26, 1947	.34	.56	.61	.61	.61	.61	.61	.61	.62	.62	....	.62		
Aug. 2, 1947	.28	.58	.82	1.08	1.26	1.31	1.38	1.52	1.72	1.82	....	1.97		
Aug. 28, 1947	.24	.43	.56	.69	1.06	1.39	1.49	1.53	1.57	1.64	....	1.83		
Aug. 29, 1947	.32	.52	.66	.75	.84	.87	.90	.92	.92	.94	....	1.61		
May 4, 1948	.46	.57	.62	.68	.71	.74	.79	.81	.83	.83	....	.83		
Aug. 14, 1948	.27	.49	.66	.86	.97	1.06	1.19	1.29	1.32	1.32	....	1.32		
Aug. 22, 1948	.28	.48	.59	.71	.95	1.50	1.85	1.99	2.05	2.25	....	2.38		
Nov. 19, 1948	.29	.43	.47	.70	.80	.82	.82	.84	.84	.84	....	.84		
Dec. 3, 1948	.42	.55	.82	1.07	1.51	1.99	2.13	2.32	2.40	2.57	....	2.86		
Jan. 6, 1949	.21	.29	.38	.42	.54	.66	.69	.72	.73	.73	....	.74		
April 13, 1949	.28	.47	.55	.56	.56	.56	.56	.56	.56	.56	....	.58		
May 2, 1949	.22	.38	.44	.49	.57	.61	.67	.75	.83	.85	....	.93		
June 7, 1949	.26	.33	.34	.34	.34	.34	.34	.34	.34	.34	....	.34		
June 16, 1949	.25	.37	.50	.56	.59	.60	.61	.64	.83	.89	....	.91		
June 29-30, 1949	.19	.29	.42	.45	.52	.55	.58	.60	.61	.63	....	.68		
June 30, 1949	.48	.96	1.44	1.86	2.43	3.67	4.57	4.91	5.45	5.77	5.88	5.89		
NORTH DAKOTA														
Bismarck (Airport)														
July 27, 1943	.19	.33	....	.39	.39	.40	.40	.40	.40	.40	....	.40		
Aug. 11, 1943	.21	.40	....	.51	.53	.55	.55	.56	.56	.56	....	.56		
May 24, 1944	.34	.40	.42	.43	.56	.67	.72	.86	.96	.99	....	1.05		
May 17, 1944	.23	.39	.54	.60	.68	.74	.78	.82	.87	.89	....	.90		
Aug. 8, 1944	.44	.79	1.00	1.15	1.18	1.19	1.19	1.19	1.19	1.19	....	1.19		
July 21, 1945	.20	.38	.48	.49	.50	.52	.52	.52	.52	.52	....	.52		
Aug. 15, 1945	.17	.82	.88	1.07	1.16	1.18	1.18	1.18	1.18	1.18	....	1.18		
July 27, 1946	.61	.91	.96	1.00	1.03	1.06	1.06	1.07	1.08	1.08	....	1.08		
July 17, 1946	.49	.83	.94	.96	.96	.96	.97	.97	.97	.97	....	.97		
June 3, 1947	.54	1.08	1.49	1.89	2.44	2.65	2.67	3.35	3.12	3.07	3.20	3.22		
July 12, 1947	.24	.33	.39	.43	.44	.44	.44	.44	.44	.44	....	.45		
April 23, 1948	.25	.39	.51	.63	.75	.92	.99	1.05	1.14	1.28	....	1.46		
June 24, 1948	.30	.53	.77	.87	.99	1.01	1.05	1.07	1.07	1.07	....	1.07		
July 20, 1948	.15	.23	.29	.35	.49	.73	.75	.76	.77	.78	....	.78		
Aug. 12, 1949	.21	.34	.50	.62	.69	.78	.80	.81	.81	.81	....	.81		
Aug. 14, 1949	.18	.29	.45	.55	.75	.83	.86	.94	1.14	1.29	1.49	1.52		
Devils Lake														
July 20, 1943	....	....	....	.58	....	.60	.60	.60	.60	.60	....	.60		
July 12, 1943	....	....	.80	.92	.98	.99	1.00	1.00	1.00	1.00	....	1.00		
May 24, 1944	.27	.35	.39	.41	.43	.45	.57	.83	.86	.90	....	1.01		
June 15, 1944	.17	.33	.47	.56	.60	.63	.64	.64	.64	.64	....	.64		
June 23, 1944	.45	.54	.63	.65	.69	.79	.96	.97	.97	.97	....	.97		
July 16, 1944	.25	.47	.55	1.25	1.65	1.71	1.75	1.75	1.75	1.75	....	1.75		
Aug. 27, 1944	.30	.50	.63	.74	.94	1.15	1.22	1.23	1.23	1.23	....	1.23		
Sept. 2-3, 1944	.26	.36	.44	.53	.69	.83	.84	.85	1.11	1.15	....	1.15		
June 11, 1945	.40	.63	.75	.85	.87	.87	.89	.89	.89	.89	....	.89		
July 4, 1945	.38	.49	.50	.52	.53	.54	.55	.56	.56	.56	....	.56		
July 26, 1945	.25	.40	.47	.52	.58	.63	.69	.74	.79	.86	....	.92		
July 31, 1945	.18	.31	.38	.45	.48	.48	.48	.48	.48	.48	....	.48		
June 27-28, 1946	.34	.46	.53	.57	.64	.71	.88	.97	1.02	1.06	....	1.27		
July 9, 1946	.21	.35	.46	.52	.55	.55	.55	.55	.55	.55	....	.55		
July 24, 1947	.53	.92	1.07	1.12	1.17	1.19	1.19	1.19	1.19	1.19	....	1.19		
May 14, 1948	.29	.48	.50	.51	.54	.56	.87	.97	.98	1.01	....	1.07		
June 29, 1949	.26	.49	.58	.62	.63	.66	.78	.88	.92	.93	....	.93		
July 3, 1949	.20	.35	.42	.46	.54	.57	.58	.58	.58	.59	....	.59		
Fargo (Hector Field Airport)														
Aug. 8, 1943	.36	.64	....	1.15	1.33	1.72	2.16	2.39	2.69	2.93	3.44	4.05		
May 11-12, 1944	....	.46	.52	.68	.76	1.17	1.42	1.48	1.86	....	....	1.98		
June 2, 1944	....	.40												

EXCESSIVE SHORT DURATION RAINFALL

Table 14-Continued

Station and date	Maximum precipitation in inches (5 to 180 minutes)											
	5	10	15	20	30	45	60	80	100	120	150	180
NORTH DAKOTA-Cont'd												
Fargo-Continued (Hector Field Airport)												
July 29, 1948	.24	.34	.56	.58	.61	.65	.68	.70	.70	.70	....	.72
May 30, 1949	.25	.36	.42	.44	.44	.44	.44	.45	.45	.46	.47	.47
July 5, 1949	.29	.53	.73	.94	1.14	1.36	1.46	1.58	1.62	1.63	1.63	1.63
Williston												
June 20, 1943	.25	.38	....	.53	.67	.83	.89	1.01	1.07	1.07	1.08	1.08
July 9, 1943	.32	.38	....	.40	.41	.43	.43	.43	.43	.43	.43	.43
July 29, 1943	.42	.60	....	.63	.63	.63	.63	.63	.63	.63	.63	.63
June 17, 1944	.20	.29	.35	.40	.45	.52	.64	.76	.83	.93	....	1.01
July 2, 1944	.60	.96	1.12	1.16	1.18	1.18	1.19	1.19	1.19	1.19	....	1.19
Aug. 1, 1944	.28	.32	.34	.34	.34	.35	.38	.40	.49	.50	....	.50
June 23, 1945	.38	.45	.47	.49	.56	.64	.72	.79	.81	.82	....	.83
July 3, 1945	.26	.42	.43	.44	.45	.46	.46	.46	.46	.46	....	.46
Sept. 22, 1945	.15	.25	.34	.40	.41	.44	.45	.45	.45	.45	....	.45
June 6, 1946	.34	.41	.43	.45	.46	.51	.54	.54	.54	.55	....	.55
June 29, 1946	.21	.44	.54	.62	.67	.68	.69	.78	.88	.89	....	.90
July 17, 1946	.55	.83	1.02	1.09	1.14	1.23	1.26	1.32	1.53	1.78	....	1.97
Aug. 5, 1947	.25	.50	.67	.75	.78	.83	.89	.92	.97	.99	....	1.01
Aug. 12, 1947	.15	.25	.36	.46	.58	.78	.88	.93	.99	1.07	....	1.23
April 23, 1948	.18	.24	.31	.40	.40	.40	.40	.40	.40	.40	....	.41
July 3, 1948	.32	.51	.54	.54	.55	.55	.58	.61	.68	.69	....	.69
July 12, 1948	.20	.38	.56	.67	.74	.74	.77	.78	.78	.78	....	.85
July 20, 1948	.18	.33	.43	.59	.60	.60	.61	.63	.63	.63	....	.63
May 17, 1949	.31	.52	.68	.72	.77	.80	.81	.82	.82	.89	.93	.94
OHIO												
Cincinnati												
May 24, 1943	.24	.42	....	.50	.53	.66	.71	.81	.88	.88	.88	.88
June 16, 1943	.39	.59	....	.76	.90	1.09	1.09	1.19	1.19	1.19	1.19	1.19
July 13, 1943	.29	.53	....	.85	.91	.92	.92	.92	.92	.92	.92	.92
July 17, 1943	.28	.45	....	.66	.79	.81	.82	.83	.83	.83	.83	.83
July 28, 1943	.19	.30	....	.36	.49	.67	.69	.72	.79	.82	.83	.83
Sept. 29, 1943	.14	.27	....	.43	.50	.54	.59	.62	.69	.71	.79	.81
Sept. 1, 1943	.27	.41	....	.51	.55	.57	.59	.69	.79	.79	.79	.79
May 17, 1944	.33	.48	.73	.85	.89	.90	.90	.91	.91	.91	....	.91
July 26, 1944	.39	.51	.52	.53	.54	.54	.54	.54	.54	....	....	.54
Aug. 21, 1944	.46	.81	1.04	1.11	1.19	1.29	1.31	1.31	1.31	1.31	....	1.33
March 19, 1945	.25	.47	.50	.53	.55	.64	.68	.70	.70	.70	....	.70
March 29, 1945	.24	.28	.35	.54	.60	.65	.70	.73	.74	.74	....	.75
May 16, 1945	.22	.34	.36	.39	.47	.49	.50	.50	.50	.50	....	.50
June 14, 1945	.61	.79	.81	.83	.89	.92	.97	1.14	1.24	1.29	....	1.40
June 16, 1945	.30	.36	.42	.45	.56	.82	1.16	1.29	1.29	1.29	....	1.65
June 17, 1945	.21	.33	.49	.59	.72	.89	.96	1.02	1.04	1.06	....	1.06
June 30, 1945	.32	.34	.34	.34	.34	.34	.34	.34	.34	.34	....	.34
Sept. 10, 1945	.32	.37	.46	.48	.48	.48	.48	.48	.48	.48	....	.48
Sept. 25, 1945	.19	.33	.42	.47	.51	.67	.74	.78	.79	.82	....	.82
May 16, 1946	....	....	.44	....	.80	1.08	1.09	1.12	1.13	1.13	....	1.23
June 15, 1946	....	....	.52	....	.73	.76	.76	....	....	.76	....	.76
June 16, 1946	....	....	.44	....	.45	.45	....	....	.46	.49	....	.49
June 19, 1946	....	....	.90	....	1.49	1.53	1.54	1.64	1.73	1.76	....	1.79
May 21, 1947	.27	.37	.43	.47	.57	.69	.73	.77	.81	.83	....	.94
June 8, 1947	.32	.49	.52	.53	.66	.75	.91	.94	.95	.95	....	.95
July 9, 1947	.18	.28	.35	.42	.55	.60	.74	.81	.84	.87	....	.87
July 27, 1947	.38	.64	.80	.87	1.16	1.45	1.47	1.47	1.47	1.48	....	1.48
Aug. 3, 1947	.36	.45	.58	.61	.63	1.07	1.09	1.10	....	....	....	....
March 15, 1948	.22	.33	.36	.39	.42	.47	.53	.58	.70	.77	....	.96
March 19, 1948	.31	.40	.46	.61	.64	.75	.75	.75	.75	.75	....	.75
March 31, 1948	.38	.42	.46	.47	.51	.53	.56	.59	.59	.59	....	.64
April 6, 1948	.19	.37	.41	.44	.55	.71	.74	.79	.82	.83	....	.83
April 11, 1948	.23	.38	.50	.60	.67	.73	.78	.81	.85	.87	....	1.05
May 16, 1948	.22	.35	.41	.46	.47	.47	.47	.47	.47	.47	....	.47
June 29, 1948	.30	.44	.65	.87	1.02	1.27	1.34	1.38	1.40	1.40	....	1.40
July 13, 1948	.29	.40	.43	.53	.62	.69	.70	.71	.74	.77	....	.79
Aug. 29, 1948	.27	.49	.59	.68	.90	.95	.95	.95	.95	.95	....	.95
Nov. 5, 1948	.21	.34	.36	.39	.49	.56	.58	.73	.76	.82	....	.93
Dec. 15, 1948	.20	.40	.51	.56	.57	.65	.77	.84	1.00	1.01	....	1.04
Feb. 15, 1949	.19	.29	.39	.43	.45	.49	.56	.63	.74	.78	....	.80
June 24, 1949	.28	.48	.54	.57	.62	.84	1.03	1.06	1.07	1.07	....	1.22
June 27, 1949	.39	.76	.99	1.10	1.14	1.25	1.28	1.28	2.01	2.05	....	2.05
Aug. 4, 1949	.30	.53	.65	.76	.85	.88	.92	.94	.94	.94	....	.94
Aug. 15, 1949	.21	.36	.43	.47	.48	.48	.48	.56	.68	.71	.73	.75
Cleveland (Airport)												
June 27, 1943	.20	.29	....	.50	.75	1.02	1.08	1.10	1.12	1.13	1.13	1.13
July 4, 1943	.26	.46	....	.52	.61	.65	.67	.71	.72	.72	.76	.78
July 4, 1943	....	....	....	.52	.55	.59	.60	.60	.61	.62	.67	.67
Aug. 13, 1943	.30	.50	....	.68	.75	.76	.76	.76	.76	.76	.76	.76
Sept. 1, 1943	.30	.39	....	.43	.55	.82	.92	.92	.92	.92	.92	.92
Aug. 17, 1944	.50	1.02	1.00	1.25	1.81	1.94	1.95	1.99	2.02	2.02	....	2.02
Sept. 4, 1944	.40	.54	.69	.74	.79	.90	.94	.96	1.18	1.60	....	1.60
Sept. 6, 1944	.25	.35	.42	.43	.46	.46	.47	.48	.49	.49	....	.49
June 28, 1945	.34	.44	.49	.52	.55	.55	.55	.55	.55	.55	....	.55
Sept. 9, 1945	.16	.28	.42	.48	.52	.53	.55	.56	.56	.56	....	.62
Sept. 23, 1945	.20	.26	.33	.36	.61	.66	.82	.93	.93	.93	....	.93
Sept. 24, 1945	.28	.40	.50	.53	.61	.61	.70	.70	.70	.70	....	.70
June 16, 1946	.59	1.05	1.30	1.41	2.09	2.20	2.21	2.27	2.37	2.45	....	2.50
July 1, 1946	.22	.30	.32	.34	.35	....	.40	.40	.40	.40	....	.40
May 17, 1947	.30	.50	.54	.54	.54	.54	.54	.54	.54	.54	....	.54
June 7, 1947	.30	.35	.48	.50	.53	.54	.54	.54	.55	.55	....	.56
July 13, 1947	.54	.88	.99	1.04	1.06	1.06	1.06	1.06	1.06	1.06	....	1.06
July 26, 1947	.55	.80	.83	.83	.83	.83	.83	.83	.83	.83	....	.83
Aug. 30, 1947	.52	.62	.73	.83	1.18	1.27	1.38	1.40	1.42	1.42	....	2.09
March 21, 1948	.25	.35	.46	.60	.66	.79	1.12	1.16	1.25	1.25	....	1.25
April 27, 1948	.31	.56	.63	.70	.73	.75	.80	.84	.85	.95	....	1.02
June 29, 1948	.22	.39	.47	.48	.51	.52	.53	.53	.53	.53	....	.53
July 26, 1948	.25	.45	.60	.76	1.18	1.30	1.62	2.07	2.17	2.20	....	2.20
Aug. 11, 1948	.50	.69	1.14	1.17	1.25	1.27	1.29	1.29	1.34	1.36	....	.61
Aug. 12, 1948	.27	.36	.40	.40	.40	.40	.40	.40	.40	.40	....	.41
Sept. 19, 1948	.23	.38	.47	.50	.54	....	....	....	....	....	....	.64
May 19, 1949	.32	.34	.37	.41	.46	.54	.54	.56	.57	.59	....	.82
June 12, 1949	.27	.42	.42	.42	.42	.42	.42	.42	.42	.42	....	.42
June 26, 1949	.28	.32	.33	.33	.33	.33	.37	.37	.37	.43	.45	.45
Aug. 9, 1949	.35	.58	.95	.95	.95	.95	.95	.98	1.01	1.03	1.03	1.03
Aug. 28, 1949	.25	.38	.40	.60	.83	.88	1.18	1.23	1.33	1.43	1.61	1.61
Columbus												
May 17, 1943	.24	.33	....	.56	.62	.65	.65	.65	.65	.65	.65	.65
June 6, 1943	.36	.47	....	.64	.70	.71	.72	.72	.72	.72	.72	.72
June 14, 1943	.44	.64	....	.87	.91	.94	.94	.94	.94	.94	.96	1.00
June 15, 1943	.29	.52	....	.76	.93	.97	1.01	1.03	1.05	1.06	1.07	1.07

* Airport Station beginning 1:30 P.M. June 15, 1943

Station and date		Maximum precipitation in inches (5 to 180 minutes)											
		5	10	15	20	30	45	60	80	100	120	150	180
OHIO-Continued													
Columbus-Continued													
June 26, 1943		.25	.35	....	.36	.38	.38	.38	.38	.38	.38	.38	.38
July 7, 1943		.32	.51	....	.80	1.11	1.54	1.65	1.66	1.67	1.67	1.86	2.28
July 10, 1943		.27	.31	....	.49	.56	.72	.76	.77	.77	.77	.77	.77
July 17, 1943		.27	.38	....	.41	.42	.43	.43	.43	.43	.44	.47	.77
July 26, 1943		.15	.23	....	.35	.50	.56	.57	.58	.58	.58	.58	.58
July 25, 1944		.31	.48	....	.54	.58	.61	.67	.67	.68	.68	.68	.68
May 25, 1944		..	.63	.85	.98	1.03	1.33	1.56	1.70	1.71	1.71	....	1.72
June 2, 1944		.23	.47	.54	.68	.83	1.16	1.17	1.17	1.17	1.17	....	1.24
July 12, 1944		.16	.33	.49	.54	.61	.73	.79	.82	.86	.87	....	.95
July 23, 1944		.22	.37	.50	.57	.65	.71	.76	.83	.88	.88	....	.88
Aug. 12, 1944		.18	.30	.36	.42	.44	.46	.48	.48	.48	.48	....	.51
Aug. 15-16, 1944		.32	.42	.47	.49	.50	.51	.51	.51	.51	.51	....	.51
Aug. 17, 1944		.22	.32	.49	.63	.69	.74	.78	.81	.82	.82	....	.82
May 17, 1945		.26	.46	.65	.73	.80	.85	.90	.96	.96	.96	....	.96
July 22, 1945		.30	.54	.60	.60	.60	.72	.72	.73	.73	.73	....	.73
July 25, 1945		.50	.83	1.07	1.23	1.46	1.62	1.64	1.65	1.65	1.65	....	1.65
Aug. 1, 1945		.18	.28	.33	.39	.47	.62	.73	.79	.83	.91	....	1.11
Sept. 25, 1945		.16	.29	.34	.41	.44	.48	.49	.49	.49	....	....	.50
June 16, 1946		.38	.56	.65	.68	.91	1.06	1.07	1.21	1.34	1.46	....	1.50
June 27, 1946		.30	.50	.61	.80	1.03	1.38	1.60	1.66	1.67	1.71	....	1.79
July 19, 1946		.22	.27	.31	.51	.55	.56	.56	.56	.56	.56	....	.63
July 20, 1946		.26	.37	.37	.37	.37	.40	.40	.40	.40	.40	....	.40
July 21, 1946		.21	.34	.40	.43	.53	.64	.78	.83	.91	1.03	....	1.35
Aug. 4, 1946		.57	.86	.94	1.04	1.08	1.11	1.13	1.13	1.13	1.13	....	1.13
Aug. 6, 1946		.38	.51	.56	.60	.76	.82	.88	.91	.97	.98	....	1.07
May 17, 1947		.25	.43	.46	.49	.66	.67	.69	.69	.77	.77	....	.88
June 13, 1947		.33	.60	.70	.73	.77	.83	.87	.94	.99	1.02	....	1.03
July 15, 1947		.67	.98	1.13	1.35	1.71	1.97	2.15	2.20	2.22	2.24	....	2.35
Aug. 15, 1947		.19	.31	.37	.42	.45	.48	.49	.49	.49	.49	....	.53
Aug. 21, 1947		.34	.43	.62	.73	.83	.87	.88	.88	.88	.89	....	.90
Aug. 31, 1947		.41	.45	.48	.51	.64	.66	.67	.67	.68	.69	....	.69
Sept. 12, 1947		.19	.35	.51	.69	.82	.92	.93	.93	.94	.94	....	.94
May 2, 1948		.43	.61	.69	.69	.69	.70	.70	.70	.70	.70	....	.70
June 6, 1948		.25	.40	.45	.45	.45	.51	.54	.55	.55	.55	....	.55
June 29, 1948		.25	.41	.60	.74	1.01	1.13	1.15	1.18	1.18	1.18	....	1.18
July 12, 1948		.54	.72	.99	1.24	1.49	1.69	1.69	1.69	1.69	1.70	....	1.70
July 21, 1948		.22	.40	.43	.44	.46	.49	.62	.78	.78	.79	....	1.27
July 23, 1948		.25	.42	.52	.57	.68	.73	.73	.73	.73	.73	....	.73
July 27, 1948		.51	.81	1.10	1.18	1.22	1.26	1.26	1.27	1.27	1.27	....	1.27
May 24, 1949		.23	.33	.34	.34	.35	.35	.35	.35	.35	.35	....	.35
June 4, 1949		.21	.38	.51	.54	.55	.56	.56	.56	.56	.56	....	.56
June 10, 1949		.27	.53	.63	.74	.79	.79	.81	.85	.86	.86	....	.86
June 26, 1949		.20	.32	.37	.39	.41	.44	.47	.53	.60	.65	....	.69
June 27, 1949		.18	.30	.34	.34	.35	.36	.36	.36	.36	.36	....	.36
July 20, 1949		.21	.33	.37	.47	.63	.70	.74	.75	.75	.76	....	.77
July 21, 1949		.31	.44	.50	.50	.50	.51	.52	.53	.53	.53	....	.56
Aug. 28, 1949		.30	.43	.50	.51	.51	.53	.53	.53	.53	.53	....	.53
* Dayton (Municipal Airport)													
May 24, 1943		.27	.42	....	.55	.60	.71	.74	.76	.76	.76	....	.77
July 21-22, 1943		.21	.30	....	.31	.32	.33	.36	.38	.38	.39	....	.39
July 29, 1943		.32	.35	....	.35	.35	.35	.35	.35	.35	.35	....	.35
Aug. 26, 1943		.24	.33	....	.39	.52	.65	.81	.96	1.01	1.03	1.04	1.05
May 25, 1944		.25	.35	.47	.54	.68	.75	.78	.86	.97	1.23	....	1.46
Aug. 5, 1944		.11	.31	.43	.52	.54	.55	.56	.56	.56	.57	....	.57
Aug. 12, 1944		.31	.38	.43	.43	.44	.50	.55	.56	.56	.56	....	.56
March 19, 1945		.30	.46	.52	.55	.60	.66	.69	.72	.74	.74	....	.88
May 17, 1945		.34	.46	.57	.62	.66	.73	.80	.85	.87	.88	....	.88
June 10, 1945		.16	.21	.31	.39	.49	.70	.91	1.10	1.17	1.21	....	1.23
June 13, 1945		.27	.30	.35	.37	.48	.55	.59	.64	.66	.67	....	.89
June 16, 1945		.31	.53	.57	.61	.64	.69	.72	.76	.79	.80	....	.81
June 17, 1945		.33	.58	.62	.65	.72	.74	.75	.75	.76	.76	....	.76
June 30, 1945		.23	.35	.37	.41	.43	.46	.51	.57	.60	.62	....	.64
July 1, 1945		.23	.44	.51	.52	.53	.53	.53	.53	.53	.53	....	.53
Aug. 1, 1945		.25	.45	.57	.62	.75	.83	.90	1.11	1.12	1.12	....	1.13
Sept. 10, 1945		.35	.45	.50	.52	.55	.55	.56	.56	.56	.56	....	.58
Sept. 25, 1945		.23	.27	.32	.34	.46	.54	.65	.85	.88	.93	....	1.00
Sept. 26, 1949		.21	.22	.33	.42	.54	.63	.79	1.05	1.11	1.15	1.16	1.16
July 9-10, 1949		.27	.43	.60	.74	.85	.86	.86	1.14	1.56	1.65	1.66	1.66
July 20, 1949		.24	.44	.61	.66	.72	.73	.74	.74	.74	.74	....	.74
July 21, 1949		.25	.39	.44	.46	.48	.48	.48	.48	.48	.50	....	.83
Aug. 17, 1949		.24	.44	.52	.58	.60	.88	1.09	1.11	1.12	1.12	1.13	1.13
Aug. 27, 1949		.33	.50	.60	.63	.67	.76	.80	.86	.90	.91	.91	.91
Sandusky													
May 30, 1943		.21	.30	....	.35	.38	.49	.52	.54	.56	.57	.65	.66
June 16, 1943		.35	.46	....	.74	.77	.99	1.18	1.47	1.47	1.47	1.55	1.55
June 27, 1943		.27	.41	....	.58	.75	.89	.90	.90	.90	.90	....	.90
July 4, 1943		.42	.81	....	1.52	1.74	1.74	1.74	1.75	1.75	1.76	1.80	2.06
July 7, 1943		.42	.66	....	1.07	1.34	1.62	1.65	1.73	1.81	1.85	1.90	1.95
July 10, 1943		.39	.53	....	.74	.79	.82	.84	.91	.93	.93	1.10	1.13
July 17, 1943		.32	.63	....	1.06	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08
July 21, 1943		.28	.34	....	.35	.35	.35	.35	.35	.35	.35	....	.35
July 29, 1943		.24	.36	....	.41	.44	.44	.44	.44	.44	.44	....	.44
Aug. 12, 1943		.12	.25	....	.44	.44	.44	.44	.44	.45	.45	....	.45
Aug. 13, 1943		.27	.51	....	.80	.83	.87	.90	.92	.93	.93	....	.93
May 26, 1944		.18	.30	.33	.34	.35	.35	.36	.37	.37	.37	....	.37
June 2, 1944		.12	.23	.35	.37	.41	.42	.42	.42	.42	.42	....	.42
June 4, 1944		.26	.34	.35	.35	.35	.35	.35	.35	.35	.35	....	.35
June 15, 1944		.16	.30	.46	.53	.73	.83	.86	.89	.94	.98	....	.98
June 23, 1944		.34	.52	.58	.68	1.11	1.35	1.40	1.46	1.53	1.54	....	1.66
July 12, 1944		.25	.30	.33	.34	.38	.40	.40	.40	.40	.40	....	.40
Aug. 5, 1944		..	..	.40	.41	.42	.43	.43	.43	.43	.43	....	.50
Aug. 2, 1944		.28	.49	.51	.51	.52	.52	.53	.53	.53	.53	....	.53
Sept. 23, 1944		.20	.31	.31	.32	.32	.32	.35	.35	.35	.35	....	.35
June 13, 1945		.26	.36	.37	.37	.38	.39	.39	.39	.39	.39	....	.39
June 19, 1945		.22	.35	.37	.38	.40	.40	.40	.42	.43	.43	....	.48
Sept. 14, 1945		.46	.70	.92	.95	.95	.95	.95	.96	.96	.96	....	.96
Sept. 10, 1945		.30	.43	.56	.59	.84	1.03	1.12	1.14	1.18	1.25	....	1.27
May 16, 1946		.13	.25	.32	.37	.50	.55	.57	.58	.59	.60	....	.64
May 24, 1946		.43	.45	.45	.46	.48	.49	.52	.54	.55	.55	....	.55
May 30, 1946		.28	.33	.34	.45	.49	.50	.50	.50	.50	.50	....	.62
May 31,													
June 1, 1946		.18	.31	.41	.48	.61	.83	1.07	1.25	1.51	1.54	....	1.58
June 12, 1946		.22	.42	.55	.58	.60	.60	.68	.68	.68	.68	....	.70
June 16, 1946		.18	.34	.47	.57	.79	1.01	1.07	1.07	1.27	1.27	....	1.39
June 16, 1946		.37	.51	.61	.70	.85	.98	1.44	1.73	1.74	1.76	....	1.76
June 20, 1946		.40	.49	.49	.49	.49	.49	.49	.49	.49	.49	....	.49
June 28, 1946		.16	.24	.33	.41	.52	.76	.79	.84	.85	.85	....	.86
July 20, 1946		.29	.49	.63	.74	.82	.88	.92	.97	1.01	1.04	....	1.67
July 24, 1946		.40	.49	.52	.56	.56	.56	.56	.56	.56	.56	....	.56
Sept. 7, 1946		.17	.30	.38	.43	.44	.44	.44	.45	.47	.47	....	.47
May 4, 1947		.21	.31	.37	.43	.45	.46	.47	.48	.48	.48	....	.48

EXCESSIVE SHORT DURATION RAINFALL

Table 14-Continued

Station and date	Maximum precipitation in inches (5 to 180 minutes)												
	5	10	15	20	30	45	60	80	100	120	150	180	
OHIO-Continued													
Sandusky-Continued													
June 29, 1947	.25	.49	.60	.75	.81	.81	.82	.84	.85	.85	....	.85
July 21, 1947	.42	.59	.65	.67	.67	.72	.73	.73	.73	.73	....	.73
Aug. 14, 1947	.20	.31	.37	.38	.42	.48	.48	.52	.56	.60	....	.66
Aug. 25, 1947	.37	.68	.89	1.01	1.13	1.22	1.27	1.31	1.33	1.34	....	1.35
Aug. 30, 1947	.34	.67	.80	.95	1.05	1.24	1.36	1.42	1.44	1.45	....	1.45
March 21, 1948	.21	.38	.49	.55	.71	.99	1.10	1.17	1.23	1.26	....	1.30
June 28, 1948	.33	.47	.57	.59	.59	.62	.63	.63	.64	.64	....	.64
June 29, 1948	.25	.37	.40	.42	.52	.54	.54	.54	.54	.54	....	.54
July 22, 1948	.38	.72	.97	1.16	1.35	1.46	1.47	1.48	1.48	1.48	....	1.48
July 26, 1948	.17	.28	.42	.54	.68	.72	.73	.74	.78	.78	....	.78
May 19, 1949	.18	.31	.34	.36	.36	.36	.36	.43	.52	.54	....	.58
Sept. 6, 1949	.30	.39	.57	.69	.79	.85	.85	.86	.89	.89	....	.90
Sept. 18, 1949	.18	.33	.33	.33	.33	.33	.33	.33	.33	.33	....	.33
Sept. -, 1949	.22	.43	.58	.69	.88	1.00	1.00	1.01	1.13	1.14	1.19	1.26	
Toledo													
(Municipal Airport)													
May 18, 1943	.30	.48	....	.59	.63	.92	.97	.97	.97	.97	....	.98
June 15, 1943	.28	.37	....	.39	.40	.41	.42	.42	.43	.44	....	.44
July 4, 1943	.30	.43	....	.53	.54	.54	.56	.73	.86	.87	....	.88
July 7, 1943	.18	.31	....	.47	.53	.56	.64	.66	.67	.69	....	.74
July 21, 1943	.24	.40	....	.60	.68	.78	.80	.81	.81	.84	....	.84
July 29, 1943	.38	.66	....	.77	.78	.79	.79	.79	.79	.79	....	.79
Aug. 12, 1943	.42	.64	....	.91	1.08	1.11	1.11	1.11	1.11	1.11	....	1.11
June 23, 1944	.54	.93	1.26	1.64	1.74	2.25	2.54	2.60	2.64	2.65	....	2.92
July 11, 1944	.27	.39	.44	.48	.54	.56	.58	.59	.60	.60	....	.60
July 26, 1944	.34	.37	.39	.66	.69	.74	.76	.76	.76	.76	....	.77
Aug. 15, 1944	.21	.37	.52	.61	.68	.70	.70	.89	1.04	1.06	....	1.07
Aug. 17, 1944	.49	.72	.80	.82	.83	.83	.84	.84	.97	.98	....	.98
June 19, 1945	.15	.24	.30	.41	.52	.54	.56	.56	.56	.56	....	.58
June 21, 1945	.29	.42	.45	.47	.48	.48	.48	.49	.49	.49	....	.49
July 14-15, 1945	.16	.28	.38	.42	.48	.54	.58	.65	.72	.76	....	.92
June 16-17, 1946	.46	.90	1.24	1.41	1.47	1.56	1.94	1.96	1.96	1.96	....	2.55
June 28, 1946	.25	.38	.44	.45	.54	.71	.78	.80	.86	.90	....	1.03
July 20, 1946	.30	.43	.47	.51	.55	.56	.56	.58	.68	.86	....	.92
April 30, 1947	.21	.31	.33	.33	.34	.34	.45	.50	.50	.50	....	.50
June 7, 1947	.13	.22	.32	.42	.48	.64	.77	.84	.88	.90	....	.92
June 27, 1947	.30	.40	.43	.44	.47	.48	.52	.58	.59	.60	....	.60
July 9, 1947	.17	.31	.42	.49	.54	.57	.58	.62	.63	.63	....	.67
Aug. 25, 1947	.19	.30	.39	.44	.60	.87	1.05	1.16	1.22	1.27	....	1.45
Aug. 29, 1947	.27	.38	.39	.40	.41	.41	.41	.42	.42	.42	....	.45
Aug. 29, 1947	.21	.35	.40	.40	.40	.40	.41	.44	.44	.44	....	.44
June 29, 1948	.38	.70	.97	1.12	1.22	1.39	1.44	1.49	1.55	1.56	....	1.56
July 22, 1948	.24	.31	.32	.33	.34	.34	.34	.34	.34	.34	....	.37
Aug. 18, 1948	.28	.37	.38	.40	.43	.49	.49	.49	.49	.49	....	.52
Feb. 14, 1949	.19	.32	.40	.43	.45	.49	.51	.57	.64	.65	.66	.72	
May 19, 1949	.26	.34	.35	.37	.43	.48	.53	.61	.67	.68	.70	.75	
Aug. 17, 1949	.24	.46	.63	.81	1.10	1.31	1.46	1.64	1.74	1.77	1.83	1.88	
Vandalia													
(Municipal Airport)													
May 4, 1946	.26	.39	.44	.47	.49	.53	.56	.57	.59	.61	....	.66
June 13, 1946	.22	.42	.50	.52	.54	.55	.56	.58	.61	.77	....	.88
July 8, 1946	.28	.50	.75	.88	.94	.95	.96	1.01	1.02	1.03	....	1.04
July 19, 1946	.37	.64	.82	1.01	1.16	1.18	1.19	1.19	1.20	1.20	....	1.20
July 24, 1946	.20	.28	.40	.43	.44	.45	.45	.45	.45	.45	....	.45
Aug. 9, 1946	.18	.34	.37	.38	.39	.40	.40	.40	.40	.40	....	.40
May 17, 1947	.26	.34	.36	.41	.44	.44	.74	.77	.81	.84	....	.86
May 21, 1947	.27	.31	.33	.36	.52	.56	.59	.74	.79	.83	....	.88
May 27, 1947	.27	.30	.31	.32	.33	.33	.35	.37	.37	.38	....	.38
June 1, 1947	.34	.46	.56	.57	.73	.78	.82	.89	.93	.97	....	1.33
June 6, 1947	.25	.27	.27	.27	.28	.28	.28	.29	.29	.32	....	.53
June 6, 1947	.29	.43	.55	.60	.71	.75	.76	.78	.82	.85	....	.88
June 13-14, 1947	.28	.33	.38	.44	.47	.47	.47	.48	.50	.53	....	.56
June 29, 1947	.48	.70	.78	.83	.91	.94	.94	.95	.95	.95	....	.95
July 27, 1947	.22	.35	.37	.38	.38	.39	.39	.49	.56	.57	....	.58
Aug. 14, 1947	.52	.85	1.13	1.28	1.34	1.40	1.43	1.46	1.47	1.48	....	1.49
Aug. 15, 1947	.18	.30	.36	.41	.47	.51	.53	.55	.55	.57	....	.63
Aug. 31, 1947	.35	.48	.56	.59	.63	.63	.63	.63	.63	.63	....	.63
Sept. 1, 1947	.26	.43	.44	.46	.46	.46	.46	.46	.46	.46	....	.46
June 6, 1948	.28	.45	.58	.75	1.09	1.48	1.61	1.64	1.65	1.72	....	1.80
June 7, 1948	.28	.37	.41	.43	.45	.46	.47	.47	.47	.47	....	.47
June 19, 1948	.17	.26	.32	.40	.40	.41	.41	.41	.41	.41	....	.41
June 21, 1948	.20	.33	.45	.51	.53	.53	.53	.53	.53	.53	....	.53
June 26, 1948	.34	.51	.63	.67	.71	.75	.77	.78	.78	.78	....	.78
July 12, 1948	.19	.36	.52	.62	.68	.92	1.28	1.37	1.42	1.42	....	1.49
July 17, 1948	.40	.60	.74	.77	.78	.78	.78	.78	.78	1.02	....	1.36
Aug. 11, 1948	.25	.36	.41	.43	.46	.50	.54	.56	.57	.57	....	.57
OKLAHOMA													
Oklahoma City													
May 19, 1943	.56	.78	....	.80	.81	.82	.83	.83	.84	.84	.86	.87
May 11, 1943	.47	.80	....	1.30	1.53	1.60	1.60	1.61	1.64	1.66	1.68	1.68
March 15, 1944	.27	.52	.60	.74	.82	.86	.86	.87	.87	.87	....	.87
April 9, 1944	.49	.95	1.44	1.66	2.12	2.31	2.56	2.83	2.88	2.90	....	2.92
June 12, 1944	.37	.67	.82	.96	1.05	1.44	1.59	2.01	2.16	2.35	....	2.78
March 11, 1945	.43	.66	.78	.88	.91	.91	.92	.92	.92	.93	....	.93
April 12, 1945	.57	.84	.98	1.07	1.45	1.58	1.59	1.59	1.59	1.60	....	1.60
April 14, 1945	.67	1.09	1.40	1.51	1.63	1.74	1.76	1.79	1.81	1.84	....	1.99
May 11-12, 1945	.30	.51	.69	.85	1.06	1.29	1.34	1.39	1.51	1.57	....	1.89
June 10, 1945	.57	.91	1.04	1.30	1.73	2.01	2.66	3.28	3.38	3.41	....	4.27
July 10, 1945	.32	.54	.77	.94	1.23	1.33	1.40	1.45	1.50	1.53	....	1.62
Aug. 15, 1945	.40	.65	.81	.96	1.28	1.72	2.20	2.36	2.44	2.50	....	2.56
Sept. 28, 1945	.23	.40	.58	.70	1.02	1.37	1.52	1.61	1.69	1.71	....	1.86
May 22, 1946	.41	.65	.82	.90	1.29	1.72	1.76	2.07	2.11	2.12	....	2.13
April 8, 1947	.36	.72	.90	.99	1.02	1.07	1.11	1.14	1.15	1.17	....	1.23
May 15, 1947	.30	.52	.62	.69	.80	.86	.90	.96	.98	1.00	....	1.00
May 11-12, 1947	.29	.61	.76	.91	1.05	1.18	1.24	1.36	1.42	1.45	....	1.55
May 15, 1947	.35	.66	.90	.99	1.15	1.24	1.33	1.40	1.43	1.48	....	1.61
May 22, 1947	.32	.55	.81	.86	1.04	1.08	1.12	1.13	1.14	1.14	....	1.14
July 3, 1947	.74	1.25	1.49	1.61	1.81	1.96	1.99	2.01	2.01	2.36	....	2.92
Aug. 14, 1947	.33	.54	.78	.93	1.11	1.13	1.13	1.13	1.13	1.13	....	1.13
March 20, 1948	.51	.78	.91	.98	.98	1.02	1.12	1.15	1.29	1.32	....	1.33
June 21, 1948	.34	.58	.79	1.00	1.39	1.70	1.97	2.21	2.29	2.41	....	2.48
June 23, 1948	.41	.60	.63	.63	.68	.68	.68	.86	.89	.89	....	.91
April 27, 1949	.19	.27	.36	.39	.43	.49	.55	.58	.61	.65	.67	.68	
May 14, 1949	.37	.58	.66	.71	.79	.83	.88	.98	1.03	1.04	1.12	1.13	
May 19, 1949	.29	.51	.60	.63									

EXCESSIVE SHORT DURATION RAINFALL

Table 14-Continued

Station and date	Maximum precipitation in inches (5 to 180 minutes)											
	5	10	15	20	30	45	60	80	100	120	150	180
PENNSYLVANIA-Cont'd												
* Harrisburg-Cont'd (State Airport)												
Aug. 7, 1945	.30	.31	.32	.32	.32	.32	.32	.32	.32	.32	.32	.50
Sept. 9, 1945	.21	.26	.33	.43	.55	.58	.60	.78	.86	.91	1.04	
May 12, 1946	.34	.40	.44	.68	.86	.89	.90	.90	.90	.90	.91	
May 21, 1946	.21	.40	.55	.65	.87	.98	1.11	1.22	1.26	1.29	1.31	
May 25, 1946	.28	.45	.53	.60	.64	.66	.67	.67	.67	.67	.68	
July 12, 1946	.26	.46	.56	.60	.61	.62	.62	.62	.62	.62	.62	
July 20, 1946	.39	.60	.67	.69	.72	.72	.72	.72	.72	.72	.72	
July 21, 1946	.19	.32	.44	.46	.48	.51	.51	.52	.54	.54	.57	
Aug. 29, 1946	.32	.46	.52	.55	.58	.64	.65	.66	.67	.67	.70	
May 25, 1947	.30	.57	.78	.89	.93	.93	.94	.94	.94	.95	.95	
June 7, 1947	.17	.30	.42	.48	.59	.80	.86	.95	1.00	1.01	1.02	
June 11, 1947	.22	.39	.57	.67	.82	.94	.99	1.02	1.04	1.06	1.08	
July 16, 1947	.22	.37	.48	.60	.71	.78	.82	.83	.83	.83	.83	
July 17, 1947	.24	.32	.37	.39	.45	.46	.46	.47	.47	.47	.47	
Aug. 30, 1947	.22	.37	.48	.60	.71	.78	.82	.83	.83	.83	.83	
Aug. 30-31, 1947	.23	.36	.41	.42	.45	.54	.64	.68	.83	.95	.99	
May 12, 1948	.19	.34	.44	.51	.61	.77	.81	.82	.82	.82	.82	
May 24, 1948	.19	.30	.34	.36	.39	.40	.40	.40	.40	.40	.40	
June 19, 1948	.39	.60	.74	.78	.84	.85	.88	.89	.90	.91	1.14	
July 22, 1948	.31	.54	.61	.62	.89	.96	1.13	1.19	1.33	1.34	1.37	
Aug. 3, 1948	.24	.42	.51	.63	.84	1.04	1.15	1.18	1.19	1.19	1.20	
Nov. 6, 1948	.15	.26	.36	.39	.49	.56	.72	.74	.82	.87	1.01	
May 2, 1949	.27	.45	.46	.47	.47	.48	.48	.48	.51	.51	.51	
July 6, 1949	.21	.36	.42	.45	.47	.52	.53	.55	.71	.73	.77	
July 12, 1949	.24	.35	.41	.47	.54	.65	.89	1.12	1.36	1.46	1.61	
July 17, 1949	.21	.33	.44	.49	.63	.74	.76	.80	.82	.82	.83	
July 26, 1949	.23	.37	.44	.48	.56	.59	.59	.59	.59	.59	.59	
July 30, 1949	.29	.53	.73	.88	1.02	1.05	1.06	1.09	1.11	1.13	1.15	
Aug. 11, 1949	.26	.38	.46	.46	.46	.46	.46	.47	.47	.47	.47	
+ Philadelphia												
May 19, 1943	.29	.42	.44	.43	.44	.44	.44	.44	.44	.44	.44	
May 19-20, 1943	.24	.47	.44	.52	.90	.95	.99	1.03	1.05	1.05	1.06	
June 7, 1943	.36	.46	.44	.47	.47	.47	.47	.47	.47	.47	.47	
June 13, 1943	.26	.48	.44	.55	.60	.61	.62	.63	.64	.65	.65	
June 17, 1943	.23	.41	.44	.66	.87	.94	1.02	1.04	1.06	1.13	1.20	
June 29, 1943	.18	.32	.44	.58	.68	.69	.69	.72	.76	.79	.81	
July 22, 1943	.22	.31	.34	.34	.34	.34	.34	.34	.35	.35	.35	
Oct. 16, 1943	.27	.31	.31	.32	.37	.57	.67	.73	.75	.87	.88	
Nov. 8, 1943	.25	.44	.44	.72	.86	.92	.97	1.01	1.17	1.27	1.42	
June 18-19, 1944	.23	.36	.43	.48	.54	.55	.58	.63	.68	.68	1.03	
June 19, 1944	.17	.27	.42	.47	.51	.53	.53	.53	.53	.53	.53	
Sept. 13, 1944	.19	.35	.47	.53	.62	.75	1.03	1.22	1.25	1.31	1.55	
June 19, 1945	.24	.31	.34	.36	.46	.51	.55	.57	.59	.59	.59	
June 21, 1945	.32	.54	.65	.69	.76	.76	.77	.78	.83	.89	.99	
May 12, 1946	.19	.27	.37	.51	.70	.91	.96	.98	.98	.98	.98	
June 11, 1946	.22	.39	.49	.52	.75	1.00	1.14	1.20	1.21	1.23	1.34	
June 28, 1946	.44	.53	.56	.58	.59	.60	.61	.61	.61	.61	.61	
July 22, 1946	.29	.32	.34	.38	.57	.66	.73	.75	.79	.88	1.00	
Aug. 6-7, 1946	.27	.44	.61	.73	.80	1.06	1.26	1.30	1.36	1.41	1.49	
Sept. 24, 1946	.30	.45	.50	.55	.86	1.05	1.28	1.53	1.63	1.79	1.87	
April 30, 1947	.21	.33	.42	.47	.67	.89	1.15	1.48	1.85	2.02	2.57	
May 5, 1947	.21	.30	.31	.32	.33	.35	.36	.36	.38	.39	.39	
May 19, 1947	.31	.39	.48	.51	.55	.72	.77	1.05	1.13	1.16	1.46	
May 21, 1947	.25	.42	.56	.57	.62	.84	.85	.86	.88	.88	.89	
May 22, 1947	.19	.35	.49	.64	.79	.93	1.04	1.16	1.18	1.39	1.51	
May 25, 1947	.27	.41	.46	.49	.56	.58	.58	.59	.59	.59	.59	
May 25, 1947	.29	.36	.36	.36	.36	.36	.36	.36	.37	.37	.37	
June 6, 1947	.23	.32	.35	.36	.36	.36	.37	.38	.39	.39	.39	
June 7, 1947	.36	.50	.53	.55	.57	.62	.67	.70	.73	.75	.76	
June 14, 1947	.20	.33	.43	.51	.61	.66	.71	.77	.78	.78	.79	
June 20, 1947	.32	.49	.64	.74	1.00	1.15	1.19	1.25	1.26	1.29	1.38	
July 17, 1947	.25	.32	.40	.45	.49	.52	.52	.53	.53	.53	.53	
July 30, 1947	.27	.42	.53	.60	.63	.63	.63	.63	.63	.63	.63	
Aug. 8, 1947	.35	.48	.62	.70	.89	1.09	1.15	1.20	1.21	1.22	1.26	
Aug. 9, 1947	.35	.55	.74	.86	1.05	1.18	1.26	1.66	1.87	1.98	2.05	
Aug. 30, 1947	.38	.62	.81	.98	1.28	1.49	1.62	1.62	1.62	1.62	1.62	
Sept. 15, 1947	.27	.45	.50	.72	.83	1.22	1.22	1.23	1.23	1.23	1.23	
Nov. 8, 1947	.22	.31	.36	.47	.57	.72	.78	.83	.85	.90	1.10	
June 19, 1948	.19	.34	.38	.39	.41	.45	.49	.50	.56	.69	.85	
June 30, 1948	.47	.77	.86	.93	1.05	1.06	1.08	1.08	1.08	1.09	1.19	
July 6, 1948	.24	.40	.47	.48	.49	.49	.49	.49	.49	.49	.49	
July 22, 1948	.22	.33	.37	.38	.43	.43	.45	.48	.48	.49	.49	
Aug. 20, 1948	.19	.32	.41	.48	.56	.70	.79	.89	.97	1.03	1.20	
May 20, 1949	.45	.75	.98	1.20	1.27	1.31	1.40	1.42	1.45	1.46	1.47	
May 22, 1949	.31	.44	.54	.62	.69	.74	.75	.77	.80	.85	.94	
July 6, 1949	.46	.77	.99	1.08	1.15	1.15	1.18	1.20	1.21	1.21	1.21	
July 17, 1949	.36	.57	.79	.87	1.23	1.56	1.68	1.75	1.77	1.77	1.77	
Aug. 4, 1949	.32	.46	.51	.60	.78	.88	.89	.89	.92	.92	1.16	
Aug. 13, 1949	.18	.26	.40	.42	.55	.74	.79	.86	.95	1.00	1.01	
Sept. 14, 1949	.37	.42	.42	.42	.42	.42	.42	.42	.42	.42	.43	
Pittsburgh (Allegheny Municipal Airport)												
July 12, 1943	.32	.42	.44	.57	.59	.59	.59	.59	.59	.59	.59	
July 27, 1943	.22	.31	.31	.35	.49	.57	.58	.59	.65	.78	.85	
July 27, 1943	.32	.47	.47	.87	1.24	1.50	1.71	1.93	2.06	2.12	2.13	
June 9-10, 1944	.33	.53	.58	.65	.68	.70	.73	.78	.84	.84	.86	
June 18, 1944	.20	.30	.39	.40	.42	.44	.44	.47	.47	.47	.47	
June 19, 1944	.37	.42	.43	.44	.52	.63	.64	.65	.65	.65	.65	
July 12, 1944	.36	.52	.67	1.01	1.09	1.10	1.12	1.13	1.13	1.15	1.17	
Aug. 3, 1944	.20	.35	.47	.60	.91	.95	1.35	1.39	1.43	1.54	1.58	
June 2, 1945	.36	.42	.43	.47	.54	.55	.56	.56	.56	.56	.56	
June 16, 1945	.23	.31	.31	.65	.76	.80	.87	.91	.95	.95	.96	
July 29, 1945	.23	.32	.36	.37	.37	.37	.37	.37	.38	.38	.39	
Sept. 1, 1945	.23	.45	.61	.77	.94	.94	.94	.94	.94	.94	.94	
Sept. 14, 1945	.22	.43	.51	.57	.65	.71	.74	.81	.83	.86	.87	
June 29, 1946	.20	.38	.46	.51	.61	.67	.68	.68	.68	.69	.69	
July 20, 1946	.31	.44	.58	.74	.96	1.07	1.08	1.18	1.22	1.22	1.22	
Aug. 17, 1946	.13	.25	.34	.40	.48	.52	.53	.57	.58	.60	.61	
Sept. 10, 1946	.23	.40	.41	.42	.42	.43	.43	.43	.43	.43	.43	
Sept. 13, 1947	.17	.31	.39	.42	.43	.43	.43	.43	.43	.44	.45	
April 27, 1948	.21	.37	.46	.66	.91	.94	1.07	1.37	1.41	1.45	1.47	
June 7, 1948	.21	.33	.38	.39	.43	.45	.46	.48	.49	.49	.50	
June 12, 1948	.37	.52	.58	.59	.66	.82	.84	.96	1.12	1.12	1.19	
July 17, 1948	.22	.38	.52	.54	.55	.55	.55	.55	.55	.55	.55	
July 22, 1948	.22	.32	.36	.42	.51	.51	.51	.52	.52	.52	.52	
Feb. 22, 1949	.28	.34	.36	.36	.37	.37	.38	.45	.52	.57	.59	
June 14, 1949	.27	.46	.57	.60	.63	.63	.63	.63	.63	.63	.63	
Reading June 17, 1943												
	.18	.30	.31	.32	.32	.33	.34	.35	.36	.37	.38	

Station and date	Maximum precipitation in inches (5 to 180 minutes)											
	5	10	15	20	30	45	60	80	100	120	150	180

EXCESSIVE SHORT DURATION RAINFALL

Table 14--Continued

Station and date	Maximum precipitation in inches (5 to 180 minutes)													Station and date	Maximum precipitation in inches (5 to 180 minutes)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	5	10	15	20	30	45	60	80	100	120	150	180	5		10	15	20	30	45	60	80	100	120	150	180																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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July 23, 1948	.18	.36	.52	.70	.79	.84	.86	.87	.87	.8788		SOUTH CAROLINA--Cont'd																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Sept. 18, 1948	.23	.32	.35	.37	.37	.38	.38	.38	.39	.4043		Columbia--Continued																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Feb. 7, 1949	.27	.44	.52	.55	.59	.66	.73	.83	.92	.99	1.11	1.16		Aug. 7, 1949	.34	.56	.75	.91	1.06	1.10	1.12	1.12	1.14	1.15	1.15	1.15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Aug. 4, 1949	.24	.43	.62	.72	.85	.91	1.01	1.06	1.09	1.18	1.35	1.37		Aug. 15, 1949	.21	.32	.40	.43	.44	.45	.45	.45	.45	.45	.45	.45																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Sept. 22, 1949	.25	.42	.55	.58	.65	.68	.68	.68	.68	.68	.68	.68		Aug. 16, 1949	.51	.83	1.10	1.25	1.50	1.93	2.14	2.52	2.56	2.88	2.91	3.08																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Providence (T.F. Green Airport)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

Table 14-Continued

Station and date	Maximum precipitation in inches (5 to 180 minutes)												
	5	10	15	20	30	45	60	80	100	120	150	180	
TEXAS--Continued													
Abilene--Continued (Municipal Airport)													
May 10, 1945	.40	.61	.69	.70	.70	.70	.70	.70	.70	.70	....	.71
Aug. 28, 1946	.30	.53	.63	.68	.74	.83	.83	.83	.83	.83	....	.84
May 10, 1947	.27	.47	.63	.76	1.02	1.31	1.41	1.45	1.49	1.53	....	1.67
Oct. 8, 1947	....	....	.69	....	.70	.70	.70	.71	.71	.71	....	.71
Oct. 24, 1947	.38	.66	.84	1.01	1.18	1.25	1.27	1.28	1.29	1.31	....	1.37
Dec. 3, 1947	.37	.57	.60	.61	.61	.62	.64	.69	.70	.70	....	.71
May 31, 1948	.28	.48	.65	.77	1.10	1.41	1.47	1.48	1.49	1.53	....	1.54
March 25, 1949	.18	.29	.40	.40	.41	.41	.41	.41	.41	.41	.41	.41	
April 23, 1949	.22	.37	.44	.46	.47	.48	.49	.49	.49	.49	.49	.49	
May 7, 1949	.20	.31	.44	.52	.59	.61	.69	.75	.77	.79	.79	.79	
May 16, 1949	.15	.29	.40	.51	.69	.89	1.12	1.26	1.38	1.46	1.51	1.56	
May 25-26, 1949	.41	.56	.84	.98	1.03	1.06	1.09	1.13	1.21	1.28	1.32	1.33	
June 8, 1949	.22	.32	.38	.44	.50	.58	.70	.78	.82	.91	1.01	1.14	
June 10-11, 1949	.19	.34	.51	.59	.66	.74	.74	.77	.84	.88	.90	.90	
June 14, 1949	.25	.41	.47	.50	.56	.57	.57	.57	.57	.57	.57	.57	
July 13, 1949	.33	.57	.84	1.07	1.60	2.01	2.49	3.12	3.46	3.58	3.65	3.65	
Aug. 8, 1949	.22	.41	.48	.51	.58	.62	.68	.78	.80	.80	.83	.93	
Amarillo (Airport)													
April 7, 1943	.18	.22	....	.25	.31	.40	.52	.61	.64	.64	.67	.67
July 8, 1943	.65	1.23	....	2.04	2.51	3.01	3.08	3.29	3.47	3.56	3.61	3.63
Aug. 21, 1943	.43	.70	....	.92	.98	1.15	1.15	1.16	1.19	1.21	1.22	1.24
June 28, 1944	.35	.59	.83	1.16	1.35	1.57	1.83	1.97	1.98	1.98	....	1.98
July 11-12, 1944	.25	.42	.55	.65	.82	1.02	1.34	1.67	1.85	2.18	....	2.63
1945--None													
Sept. 12, 1946	.34	.61	.76	.90	1.09	1.19	1.68	1.96	1.99	2.00	....	2.01
Oct. 5, 1946	.29	.42	.62	.74	.82	.85	1.19	1.37	1.49	1.55	....	1.94
May 14, 1947	.27	.51	.67	.65	.77	.94	.96	1.00	1.01	1.01	....	1.04
June 3, 1947	.45	.65	1.09	1.26	1.34	.48	1.49	1.50	1.51	1.51	....	1.51
June 24, 1948	.52	1.02	1.51	1.82	2.57	3.06	3.36	3.42	3.44	3.46	....	3.46
Aug. 14, 1948	.29	.48	.58	.73	.98	1.03	1.13	1.20	1.25	1.28	....	1.49
Sept. 21, 1948	.32	.54	.62	.66	.68	.69	.69	.70	.70	.71	....	.71
Nov. 1, 1948	....	....	.60	....	1.08	1.42	1.60	....	....	1.89	....	1.95
May 6, 1949	.45	.81	1.08	1.28	1.47	1.93	1.99	2.20	2.20	2.83	2.94	2.99	
June 3, 1949	.41	.66	.70	.70	.70	.71	.72	.72	.73	.74	.74	.74	
July 15, 1949	.28	.55	.69	.74	.74	.75	.75	.75	.75	.75	.75	.75	
Aug. 1, 1949	.28	.31	.31	.33	.36	.43	.46	.46	.46	.46	.46	.46	
Aug. 26, 1949	.68	1.07	1.42	1.61	1.70	1.74	1.81	1.88	1.91	1.91	1.91	1.91	
Sept. 3, 1949	.27	.39	.49	.60	.68	.73	.79	.82	.84	.84	.84	.84	
Austin (Municipal Airport)													
April 8, 1943	.50	.86	....	1.47	1.90	2.35	2.40	2.44	2.45	2.47	2.53	2.56
May 10, 1943	.34	.61	....	.86	.95	.99	1.15	1.22	1.37	1.60	1.85	1.92
July 29, 1943	.42	.69	....	1.03	1.30	1.53	1.83	1.89	1.89	1.98	2.01	2.02
May 9, 1944	.50	.76	.93	1.03	1.14	1.21	1.23	1.33	1.35	1.38	....	1.38
Sept. 6, 1944	.55	1.06	1.43	1.69	2.28	2.91	3.40	3.54	3.56	3.56	....	3.68
Nov. 24, 1944	.29	.48	.68	.85	.94	.96	.96	.97	.98	.99	....	1.08
Dec. 4, 1944	.29	.53	.68	.93	1.22	1.60	1.93	2.19	2.28	2.35	....	2.64
March 2-3, 1945	.31	.53	.69	.79	.95	1.00	1.01	1.01	1.02	1.02	....	1.02
March 30, 1945	.41	.69	.95	1.12	1.31	1.46	1.49	1.50	1.50	1.50	....	1.50
April 23, 1945	.29	.57	.80	.98	1.22	1.25	1.25	1.25	1.25	1.25	....	1.25
May 2, 1945	.39	.57	.76	.80	.81	.81	.82	.82	.82	.82	....	.82
June 12, 1945	.39	.54	.65	.93	1.31	1.83	1.75	1.83	1.85	....	....	1.96
July 22, 1945	.33	.58	.70	.75	.77	.81	.82	.83	.86	.88	....	.90
Aug. 29, 1945	.37	.52	.67	.91	1.28	1.55	1.88	2.16	2.48	....	....	3.13
Feb. 18, 1946	.31	.52	.67	.74	.86	.95	1.00	1.07	1.16	1.19	....	1.23
April 21, 1946	.49	.72	.83	.84	.87	.92	.96	.98	1.12	1.13	....	1.15
April 22, 1946	.22	.41	.60	.77	.97	1.46	1.89	2.29	2.46	2.68	....	3.03
May 15, 1946	.60	.98	1.26	1.56	1.89	2.16	2.18	2.18	2.18	2.18	....	2.19
May 16, 1946	.30	.56	.76	.87	.98	1.02	1.03	1.04	1.04	1.04	....	1.04
Sept. 1, 1946	.30	.42	.54	.66	.85	1.24	1.63	1.74	1.89	2.08	....	2.25
Nov. 3, 1946	.55	.90	1.26	1.53	2.06	2.60	2.87	3.19	3.36	3.51	....	3.92
April 12, 1947	.26	.49	.66	.79	.89	.91	.91	.91	.92	.94	....	1.21
May 16, 1947	.29	.53	.74	.89	.95	.96	.96	.97	.97	1.01	....	1.31
July 18-19, 1947	.30	.58	.78	.89	.98	1.02	1.08	1.08	1.08	1.08	....	1.11
March 16, 1948	.40	.45	.45	.45	.45	.45	.46	.46	.46	.46	....	.46
May 6, 1948	.40	.59	.70	.87	1.16	1.24	1.26	1.27	1.27	1.27	....	1.27
May 11, 1948	.32	.54	.74	.89	1.02	1.09	1.19	1.26	1.31	1.33	....	1.46
May 26, 1948	.47	.65	.71	.73	.80	.82	.82	.82	.82	.82	....	1.05
July 4, 1948	.38	.70	.89	.95	1.09	1.32	1.33	1.33	1.33	1.33	....	1.33
Dec. 15, 1948	.31	.55	.71	.80	1.32	1.39	1.39	1.39	1.39	1.39	....	1.39
March 21, 1949	.38	.57	.76	.81	.93	.99	1.01	1.01	1.02	1.03	1.04	1.04	
March 26, 1949	.30	.34	.39	.44	.54	.60	.60	.60	.60	.60	.63	.70	
April 19, 1949	.25	.35	.38	.42	.45	.53	.56	.59	.64	.72	.81	.87	
April 24, 1949	.33	.53	.61	.72	.80	.84	.88	.98	1.03	.98	1.21	1.26	
June 14-15, 1949	.29	.44	.57	.67	.80	.85	.87	.90	.92	.98	1.05	1.07	
Aug. 25, 1949	.29	.42	.47	.51	.54	.55	.58	.62	.65	.68	.73	.76	
Sept. 17, 1949	.23	.44	.65	.75	1.08	1.19	1.20	1.20	1.20	1.21	1.21	1.21	
Sept. 9, 1949	.35	.61	.80	.99	1.29	1.79	2.23	2.74	3.15	3.23	3.28	3.38	
Oct. 24, 1949	.17	.26	.35	.43	.50	.58	.65	.77	.81	1.07	1.19	1.37	
Dec. 3, 1949	.23	.39	.43	.44	.46	.47	.47	.47	.47	.69	.78	.84	
Brownsville (Airport)													
May 22, 1943	.68	1.10	....	1.41	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52
Dec. 3, 1943	.29	.41	....	.62	.83	1.07	1.54	1.79	2.00	2.29	2.25	2.37
May 28, 1944	.67	1.17	1.57	1.92	2.37	2.97	3.08	3.30	3.48	3.54	....	3.55
Aug. 27, 1944	.34	.61	.71	.88	1.13	1.16	1.16	1.16	1.16	1.16	....	1.16
Sept. 26, 1944	.41	.65	.82	.90	1.00	1.06	1.10	1.18	1.21	1.25	....	1.30
Oct. 7, 1944	.33	.56	.84	.94	1.15	1.33	1.36	1.36	1.37	1.37	....	1.38
May 22, 1945	.26	.43	.56	.66	.98	1.23	1.50	1.59	1.62	1.85	....	2.02
June 12, 1945	.30	.44	.66	.79	.84	.89	.90	.90	.91	.91	....	.91
Sept. 13, 1945	.29	.56	.76	.90	1.05	1.19	1.21	1.22	1.22	1.22	....	1.24
April 30, 1946	.61	1.09	1.62	1.99	2.40	2.50	2.50	2.50	2.52	2.54	....	2.56
Aug. 26, 1946	.26	.47	.60	.69	.79	.83	.83	.83	.83	.84	....	1.26
May 20, 1947	.32	.61	.86	1.03	1.24	1.47	1.47	1.48	1.48	1.48	....	1.48
May 25, 1947	.30	.55	.73	.87	.90	.91	.96	1.01	1.15	1.21	....	1.30
July 29, 1947	.28	.53	.74	.88	1.07	1.23	1.47	1.63	1.64	1.64	....	1.66
July 30, 1947	.34	.56	.73	.89	1.09	1.13	1.13	1.13	1.13	1.13	....	1.13
Sept. 29-30, 1947	.40	.64	.81	.94	1.04	1.11	1.11	1.11	1.13	1.21	....	1.24
Oct. 19, 1947	.36	.61	.80	.85	.89	.92	.96	.97	.98	1.02	....	1.05
May 25, 1948	.32	.57	.75	.84	.87	.87	.87	.87	.87	.87	....	.92
June 30, 1948	.32	.54	.74	.85	.95	.99	1.00	1.17	1.70	.29	....	1.84
Oct. 10, 1948	.40	.65	.75	.78	.91	1.41	1.63	1.69	1.70	1.70	....	1.84
Feb. 26, 1949	.47	.89	1.09	....	1.30	....	1.39	....	....	....	....	1.42
May 11, 1949	.26	.46	.65	.82	1.06	1.20	1.23	1.26	1.29	1.32	....	1.35
Sept. 9, 1949	.19	.39	.49	.54	.82	.91	.94	.97	.99	1.01	1.02	1.02	
July 16, 1949	.48	.84	1.30	1.58	2.22	3.23	3.44	3.50	3.59	3.59	3.61	3.61	
July 24, 1949	.17	.32	.44	.57	.82	1.13	1.35	1.43	1.48	1.53	1.65	1.72	
Aug. 27, 1949	.40	.73	.92	1.09	1.22	1.24	1.24	1.24	1.24	1.24	1.24	1.24	

* Data from incomplete instrumental record.
+ Excessive precipitation instrumental record missing.

EXCESSIVE SHORT DURATION RAINFALL

Table 14- Continued

Station and date		Maximum precipitation in inches (5 to 180 minutes)											
		5	10	15	20	30	45	60	80	100	120	150	180
TEXAS--Continued													
Brownsville--Continued (Airport)													
Aug. 28, 1949		.21	.37	.52	.58	.60	.61	.61	.61	.61	.61	.61	.61
Aug. 31, 1949		.24	.39	.54	.68	.83	1.01	1.05	1.05	1.06	1.06	1.06	1.06
Sept. 24, 1949		.23	.38	.51	.60	.71	1.00	1.27	1.51	1.84	2.03	2.35	2.53
Sept. 25, 1949		.21	.32	.41	.46	.55	.64	.68	.69	.69	.71	.93	.96
Dec. 5, 1949		.17	.34	.38	.42	.49	.55	.56	.56	.56	.56	.61	.61
Corpus Christi (Cliff Maus Field Airport)													
May 30, 1943		.30	.48	....	.78	.88	.90	.90	.91	.92	.92	.92	.92
May 2, 1944		.47	.77	1.01	1.14	1.21	1.29	1.29	1.31	1.33	1.40	....	1.44
May 27, 1944		.35	.68	.94	1.10	1.21	1.26	1.29	1.31	1.33	1.38	....	1.41
Aug. 30, 1944		.54	.88	1.24	1.49	1.87	2.43	2.64	2.69	2.70	2.71	....	2.79
Sept. 26, 1944		.46	.61	.70	.74	.77	.88	1.01	1.32	1.38	1.40	....	1.79
March 31, 1945		.43	.62	.71	.83	.95	1.23	1.28	1.29	1.29	1.30	....	1.30
April 1, 1945		.43	.65	.75	.80	.82	.83	.83	.83	.83	.83	....	.83
June 12, 1945		.28	.53	.57	.58	.58	.61	1.15	1.33	1.34	1.34	....	1.95
Aug. 22, 1945		.38	.63	.70	.72	.72	.72	.72	.73	.73	.73	....	.73
Sept. 29, 1945		.29	.50	.65	.74	.77	.80	.83	.88	.91	.91	....	.91
Oct. 7, 1945		.38	.64	.71	.71	.71	.71	.71	1.08	1.08	1.08	....	1.21
June 9, 1946		.35	.51	.71	.71	.84	.98	.99	1.02	1.03	1.03	....	1.03
June 22, 1946		.39	.56	.62	.63	.71	.71	.71	.72	.72	.72	....	.73
Sept. 29, 1946		.27	.51	.68	.82	1.05	1.21	1.39	1.66	1.92	2.54	....	2.74
Sept. 15, 1946		.28	.55	.74	.90	1.08	1.18	1.20	1.21	1.21	1.21	....	1.21
March 18, 1947		.27	.52	.65	.66	.71	.72	.72	.72	.73	.73	....	.73
May 23, 1947		.64	1.17	1.46	1.67	2.08	2.26	2.40	2.46	2.51	2.55	....	2.65
June 19, 1947		.39	.54	.70	.80	1.12	1.20	1.22	1.22	1.25	1.27	....	1.27
July 11, 1947		.41	.68	.96	1.00	1.02	1.02	1.03	1.31	2.03	2.03	....	2.05
Nov. 22, 1947		.35	.64	.92	1.14	1.34	1.57	1.79	1.92	1.96	2.13	....	3.33
Sept. 10, 1948		.27	.49	.63	.77	.97	1.09	1.38	1.64	1.73	1.79	....	1.84
Feb. 25, 1949		.28	.46	.53	.59	.69	.71	.71	.73	.73	.74	....	.74
April 20, 1949		.39	.59	.66	.69	.76	.78	.79	.82	1.03	1.14	....	1.18
April 25, 1949		.29	.50	.65	.77	.97	1.11	1.15	1.19	1.19	1.21	....	1.24
June 9, 1949		.30	.50	.58	.59	.59	.61	.64	.73	.76	.78	....	.80
July 2, 1949		.22	.42	.54	.61	.65	.65	.65	.65	.65	.65	....	.65
July 16, 1949		.33	.61	.88	1.10	1.43	1.95	2.16	2.33	2.39	2.50	....	2.59
Aug. 6, 1949		.21	.38	.55	.60	.60	.60	.60	.60	.60	.60	....	.60
Sept. 1, 1949		.25	.29	.30	.31	.31	.31	.31	.31	.31	.31	....	.31
Sept. 6, 1949		.24	.46	.66	.77	.88	.93	.96	.96	.96	.96	....	.96
Sept. 6, 1949		.23	.39	.48	.52	.64	.94	1.03	1.04	1.08	1.08	....	1.44
Sept. 18, 1949		.22	.37	.45	.49	.49	.50	.50	.50	.59	.61	....	.62
Sept. 19, 1949		.29	.53	.68	.80	.96	1.06	1.06	1.15	1.20	1.27	....	1.31
Oct. 3, 1949		.32	.49	.68	.73	.83	.94	1.23	1.41	1.54	1.64	....	1.97
Oct. 24, 1949		.35	.64	.78	.88	.94	.95	.95	.95	.95	.95	....	.95
Dallas (Love Field Airport)													
May 7, 1943		.25	.43	....	.76	.95	1.00	1.00	1.02	1.02	1.03	....	1.03
Sept. 16, 1943		.28	.45	....	.69	.74	.80	1.03	1.16	1.16	1.17	....	1.18
Feb. 27, 1944		.31	.56	.75	.83	.86	.87	.87	.88	.91	....	....	.93
March 18, 1944		.20	.40	.55	.67	.90	1.05	1.27	1.59	1.89	2.18	....	2.59
April 2, 1944		.33	.50	.63	.70	.85	1.04	1.11	1.18	1.26	1.29	....	1.35
April 29, 1944		.27	.51	.67	.86	1.13	1.29	1.47	1.56	1.66	1.77	....	1.86
May 22, 1944		.46	.75	.87	.95	1.03	1.07	1.10	1.14	1.17	1.19	....	1.20
July 12, 1944		.34	.60	.85	1.01	1.53	1.74	1.88	1.92	1.96	2.01	....	2.14
March 11, 1945		.33	.61	.93	1.05	1.16	1.22	1.22	1.22	1.22	1.22	....	1.22
March 29, 1945		.38	.63	.89	1.02	1.37	1.69	2.17	2.46	2.55	2.60	....	2.93
June 11-12, 1945		.53	.86	1.14	1.38	1.72	2.00	2.24	2.26	2.35	2.40	....	2.51
July 5, 1945		.37	.70	1.01	1.22	1.69	2.59	3.39	3.94	4.14	4.19	....	4.27
May 28, 1946		.39	.72	.95	1.21	1.81	2.39	3.19	3.75	4.00	4.27	....	5.18
Sept. 2, 1946		.41	.65	.84	.97	1.22	1.33	1.35	1.37	1.37	1.37	....	1.38
Sept. 22, 1946		.37	.53	.70	.74	1.26	1.36	1.37	1.37	1.37	1.37	....	1.37
Nov. 2, 1946		.44	.76	.95	1.14	1.45	1.74	2.13	2.74	2.99	3.09	....	3.88
April 10, 1947		.33	.62	.85	.91	1.01	1.09	1.16	1.20	1.22	1.25	....	1.40
June 20, 1947		.35	.60	.53	.55	.57	.60	.63	.93	1.17	1.23	....	1.64
Aug. 27, 1947		.52	.83	1.08	1.29	1.87	2.57	3.35	3.91	4.16	4.72	....	5.93
Sept. 11-12, 1947		....	.60	....	1.30	1.40	1.40	1.40	1.41	1.58	....	....	1.61
March 21-22, 1948		.65	.88	.95	1.04	1.20	1.30	1.34	1.38	1.41	1.41	....	1.41
May 11, 1948		.47	.66	.99	1.22	1.91	2.36	2.54	2.64	2.73	2.80	....	2.92
May 25, 1948		....	1.40	....	2.10	....	2.35	....	2.50	....	2.55	....	2.55
Jan. 24, 1949		.40	.68	1.05	1.16	1.34	1.46	1.55	1.60	1.75	2.05	....	3.14
Feb. 23, 1949		.32	.40	.41	.43	.47	.56	.77	.81	.84	.93	....	.93
March 25, 1949		.25	.40	.44	.46	.52	.54	.56	.58	.62	.68	....	.68
April 9, 1949		.17	.29	.37	.41	.45	.50	.55	.56	.56	.57	....	.57
May 17, 1949		.36	.64	.76	.88	1.23	1.51	1.62	1.78	1.89	2.22	....	3.09
June 13, 1949		.22	.28	.31	.43	.58	.73	.90	1.10	1.11	1.12	....	1.27
June 14, 1949		.22	.29	.37	.46	.72	.84	.85	.85	.86	.86	....	.86
June 23, 1949		.26	.44	.51	.52	.52	.53	.53	.53	.53	.53	....	.53
June 25, 1949		.20	.30	.40	.50	.63	.67	.69	.72	.77	.78	....	.80
Sept. 8, 1949		.12	.26	.34	.40	.48	.52	.61	.65	.65	.67	....	.67
Sept. 13, 1949		.23	.30	.34	.36	.38	.42	.56	.59	.59	.61	....	.61
Oct. 21, 1949		.19	.31	.42	.48	.63	.74	.98	1.02	1.31	1.33	....	1.36
Oct. 24, 1949		.20	.32	.43	.61	.70	.92	1.08	1.28	1.42	1.49	....	1.93
Del Rio													
April 7, 1943		.32	.55	....	1.01	1.23	1.28	1.30	1.30	1.30	1.31	....	1.31
May 21, 1943		.28	.46	....	.80	.95	1.05	1.10	1.15	1.20	1.24	....	1.27
May 21-22, 1943		.31	.61	....	.86	.94	1.01	1.01	1.02	1.03	1.03	....	1.04
July 11, 1943		.22	.42	....	.74	1.12	1.45	1.53	1.65	1.72	1.76	....	1.87
Feb. 24, 1944		.40	.56	.65	.71	.92	1.14	1.23	1.24	1.24	1.24	....	1.24
June 6, 1944		.45	.84	1.16	1.44	1.78	1.98	2.09	2.20	2.24	2.26	....	2.28
Oct. 3, 1944		.48	.79	.92	1.20	1.60	2.09	2.27	2.50	3.43	3.87	....	4.95
1945--None													
May 29, 1946		.35	.51	.54	.55	.55	.55	.55	.55	.55	.55	....	.55
June 19, 1946		.20	.40	.60	.76	1.02	1.40	1.72	2.10	2.20	2.24	....	2.37
June 19, 1947		.40	.61	.67	.70	.73	.75	.89	1.02	1.04	1.41	....	1.44
Aug. 11, 1947		.34	.63	.88	1.13	1.59	2.10	2.19	2.23	2.23	2.23	....	2.23
June 24, 1948		.32	.56	.75	.86	1.14	1.28	1.29	1.31	1.31	1.31	....	1.31
July 4, 1948		.27	.54	.73									

EXCESSIVE SHORT DURATION RAINFALL

Table 14-Continued

Station and date		Maximum precipitation in inches (5 to 180 minutes)											
		5	10	15	20	30	45	60	80	100	120	150	180
TEXAS—Continued													
Houston—Continued													
June 7, 1946		.34	.56	.59	.77	1.03	1.37	1.56	1.63	1.65	1.65	....	1.65
June 8, 1946		.41	.75	.92	1.07	1.36	1.91	2.43	2.95	3.65	3.73	....	3.85
July 3, 1946		.47	.72	.75	.76	.77	.79	.80	.80	.80	.80	....	.80
July 7, 1946		.30	.43	.50	.56	.58	.58	.58	.58	.58	.58	....	.58
Sept. 27, 1946		.36	.53	.71	.86	1.17	1.25	1.31	1.64	1.75	1.77	....	2.17
Nov. 5, 1946		.40	.61	.75	.88	1.22	1.64	1.89	1.99	2.03	2.08	....	2.20
May 18, 1947		.35	.61	.71	.73	.78	.83	.91	.97	1.05	1.13	....	1.34
May 20, 1947		.27	.42	.57	.72	.98	1.25	1.41	1.68	2.02	2.16	....	2.25
May 20, 1947		.45	.89	1.12	1.35	1.64	1.68	1.70	1.71	1.74	1.78	....	1.87
June 18, 1947		.29	.50	.73	.78	.78	.78	.78	.78	.78	.78	....	.78
June 18, 1947		.24	.43	.57	.70	.91	1.01	1.03	1.03	1.03	1.03	....	1.03
Aug. 20, 1947		.28	.42	.60	.72	.80	.80	.83	1.27	1.50	1.50	....	1.50
Oct. 29, 1947		.48	.75	1.00	1.20	1.42	1.46	1.48	1.54	1.59	1.68	....	1.69
May 11, 1948		.31	.51	.68	.74	.86	.90	.91	.91	.94	.97	....	1.00
May 18, 1948		.43	.73	.98	1.20	1.46	1.66	1.69	1.70	1.75	1.79	....	1.87
May 27, 1948		.34	.62	.71	.74	.76	.77	.79	.79	.79	.79	....	.79
June 30, 1948		.48	.76	.87	1.01	1.14	1.34	1.37	1.39	1.42	1.48	....	1.52
Nov. 16, 1948		.17	.34	.50	.67	.81	1.51	1.97	2.44	2.54	2.75	....	2.92
Jan. 21, 1949		.22	.32	.35	.39	.45	.58	.66	.71	.79	.85	....	.89
Feb. 22, 1949		.35	.57	.75	.93	1.25	1.57	1.74	1.78	1.84	1.84	....	1.85
March 21, 1949		.38	.63	.78	.86	.91	.94	.99	1.01	1.03	1.05	....	1.05
April 20, 1949		.50	.69	1.06	1.23	1.30	1.33	1.33	1.33	1.35	1.36	....	1.37
April 29, 1949		.42	.78	1.02	1.22	1.36	1.38	1.38	1.38	1.38	1.38	....	1.38
May 26, 1949		.22	.42	.54	.60	.73	.79	.80	.81	.81	.81	....	.81
May 27, 1949		.30	.41	.44	.46	.47	.47	.47	.47	.47	.47	....	.47
June 10, 1949		.31	.48	.50	.53	.54	.55	.55	.55	.55	.55	....	.55
July 14, 1949		.32	.60	.73	.89	1.19	1.54	1.68	2.21	2.43	2.47	....	2.50
July 16, 1949		.18	.34	.47	.56	.67	.87	1.11	1.32	1.70	1.84	....	1.95
July 25, 1949		.36	.38	.38	.38	.38	.39	.39	.39	.39	.39	....	.39
Aug. 2-3, 1949		.35	.60	.77	.84	.90	.99	1.03	1.04	1.04	1.05	....	1.05
Aug. 4, 1949		.24	.38	.40	.43	.44	.45	.45	.45	.45	.45	....	.45
Aug. 4, 1949		.20	.35	.38	.39	.40	.40	.40	.40	.42	.44	....	.49
Sept. 9, 1949		.39	.64	.87	.91	.93	.93	.93	.93	.93	.93	....	.93
Sept. 15, 1949		.26	.38	.42	.45	.52	.53	.53	.53	.53	.53	....	.53
Sept. 16, 1949		.34	.36	.36	.36	.36	.37	.41	.41	.41	.44	....	.44
Oct. 3, 1949		.16	.26	.34	.42	.61	.85	1.19	1.37	1.47	1.55	....	1.70
Oct. 7, 1949		.10	.30	.39	.47	.52	.74	.84	1.08	1.34	1.54	....	1.60
Oct. 11, 1949		.25	.44	.54	.54	.54	.54	.55	.56	.57	.57	....	.57
Oct. 12, 1949		.38	.63	.78	.92	1.07	1.09	1.09	1.09	1.09	1.17	....	1.17
Oct. 24, 1949		.21	.37	.48	.54	.77	.94	1.01	1.13	1.26	1.31	....	1.33
Dec. 3, 1949		.49	.85	1.05	1.33	1.41	1.61	1.84	1.88	1.97	1.97	....	1.97
Dec. 10, 1949		.34	.56	.78	.87	.98	1.17	1.37	1.61	1.62	1.62	....	1.67
Palestine													
April 8, 1943		.37	.57	....	.94	1.00	1.18	1.27	1.27	1.27	1.27	....	1.28
May 7, 1943		.35	.47	....	.75	1.07	1.21	1.40	1.91	2.00	2.20	....	2.62
May 10, 1943		.40	.65	....	1.02	1.13	1.14	1.15	1.15	1.15	1.15	....	1.15
Aug. 29, 1943		.57	.88	....	1.38	1.66	1.72	1.72	1.72	1.72	1.72	....	1.72
Nov. 1-2, 1943		.40	.63	....	.95	1.30	1.41	1.43	1.44	1.44	1.44	....	1.44
Feb. 25, 1944		.32	.52	.64	.70	.79	.80	.81	.93	.93	.94	....	.96
March 22, 1944		.34	.53	.62	.65	.67	.69	.77	.86	.91	.95	....	1.11
April 29, 1944		.38	.63	.79	.91	1.05	1.26	1.41	1.55	1.67	1.78	....	2.17
May 1, 1944		.35	.56	.75	.95	1.09	1.37	1.70	1.79	1.82	1.92	....	2.10
July 19, 1944		.28	.46	.63	.73	1.07	1.23	1.25	1.31	1.32	1.32	....	1.32
Nov. 24, 1944		.20	.39	.54	.70	.92	1.12	1.29	1.39	1.48	1.58	....	1.80
Feb. 21, 1945		.30	.51	.61	.67	.69	.71	.76	.80	.82	.85	....	.91
March 14-15, 1945		.47	.63	.64	.65	.69	.76	.78	.79	.79	.80	....	.82
March 28, 1945		.30	.53	.62	.75	.84	.97	1.27	1.52	1.78	1.78	....	1.79
March 30, 1945		.28	.54	.68	.73	.88	.98	1.04	1.08	1.14	1.17	....	1.29
July 11, 1945		.24	.45	.64	.77	.91	1.27	1.45	1.70	1.89	2.02	....	2.28
July 13, 1945		.41	.70	.94	1.13	1.38	1.42	1.43	1.47	1.56	1.57	....	1.57
Sept. 12, 1945		.32	.54	.67	.77	.85	.91	.94	.95	.95	.96	....	.96
Sept. 29, 1945		.36	.64	.83	1.00	1.12	1.22	1.33	1.35	1.37	1.38	....	1.95
Oct. 4, 1945		.24	.46	.61	.70	.76	.81	.86	.94	1.19	1.57	....	1.82
March 25, 1946		.26	.46	.61	.67	.90	1.24	1.36	1.61	1.86	2.01	....	2.33
May 11, 1946		.22	.40	.52	.69	.92	.97	.97	.97	1.01	1.21	....	1.51
Nov. 25, 1946		.35	.61	.79	.82	.83	.87	.87	.89	.94	.95	....	1.18
May 8, 1947		.35	.52	.64	.78	.91	1.04	1.08	1.13	1.25	1.25	....	1.95
May 16, 1947		.48	.84	1.05	1.14	1.40	1.61	1.67	1.68	1.70	1.70	....	2.16
June 23, 1947		.32	.63	.91	1.11	1.71	1.86	1.87	1.99	2.12	2.21	....	2.39
June 28, 1948		.33	.57	.86	1.08	1.27	1.29	1.30	1.31	1.33	1.34	....	1.38
Nov. 16, 1948		.32	.53	.58	.61	.66	.87	.96	1.02	1.03	1.04	....	1.06
Dec. 15, 1948		.25	.44	.56	.69	1.10	1.33	1.34	1.34	1.35	1.36	....	1.40
Feb. 21, 1949		.23	.36	.52	.66	.60	.69	.74	.77	.79	.81	....	.83
March 21, 1949		.49	.70	.81	.86	.97	1.10	1.15	1.21	1.25	1.32	....	1.37
March 26, 1949		.29	.36	.39	.50	.80	.87	.90	.95	.95	.97	....	.97
May 29, 1949		.20	.34	.49	.61	.86	1.06	1.15	1.17	1.19	1.19	....	1.19
June 14, 1949		.18	.27	.39	.41	.42	.45	.45	.48	.50	.50	....	.50
July 14, 1949		.18	.35	.48	.58	.75	1.04	1.18	1.26	1.30	1.31	....	1.31
July 15, 1949		.24	.36	.37	.38	.38	.38	.38	.38	.38	.38	....	.38
July 24, 1949		.40	.68	.89	1.24	1.73	2.25	2.36	2.36	2.37	2.45	....	2.45
Aug. 7, 1949		.32	.51	.62	.73	.86	.89	.96	1.00	1.03	1.05	....	1.06
Sept. 1, 1949		.19	.28	.36	.41	.45	.51	.52	.52	.52	.52	....	.52
Sept. 8, 1949		.22	.36	.42	.53	.57	.57	.61	.66	.66	.66	....	.66
Sept. 9, 1949		.16	.29	.43	.55	.75	.98	1.13	1.23	1.34	1.41	....	1.45
Sept. 14, 1949		.17	.27	.37	.43	.53	.58	.58	.59	.59	.59	....	.59
Oct. 3, 1949		.27	.47	.56	.62	.75	.78	.80	.83	.89	.97	....	1.07
Oct. 11, 1949		.57	.93	1.20	1.38	1.46	1.49	1.49	1.50	1.50	1.57	....	1.61
Oct. 21, 1949		.35	.55	.77	.86	.96	.98	.99	.99	.99	.99	....	.99
Port Arthur													
March 25, 1943		.30	.47	....	.82	1.03	1.24	1.45	1.56	1.67	1.73	....	1.88
April 17, 1943		.51	.95	....	1.49	1.89	2.25	2.42	2.55	2.73	2.83	....	2.90
June 12, 1943		.30	.56	....	.65	.67	.69	.69	.69	.69	.69	....	.69
June 29, 1943		.43	.81	....	1.19	1.22	1.23	1.24	1.25	1.25	1.25	....	1.25
July 12, 1943		.37	.47	....	.57	.82	1.12	1.52	1.75	1.80	1.80	....	1.81
Nov. 6, 1943		.44	.80	....	1.43	1.70	1.93	2.10	2.32	2.64	2.90	....	3.11
Nov. 1-2, 1944		.28	.46	.68	.80	.96	1.09	1.22	1.32	1.56	1.82	....	2.10
Feb. 19, 1944		.26	.47	.62	.76	1.14	1.38	1.39	1.40	1.40	1.40	....	1.48
March 16, 1944		.16	.29	.40	.50	.67	.96	1.21	1.52	1.73	1.86	....	2.12
May 4, 1944		.27	.48	.60	.66	.79	.90	.96					

Table 14-Continued

* Data through August 1943, when station was closed.

EXCESSIVE SHORT DURATION RAINFALL

Table 14-Continued

Station and date		Maximum precipitation in inches (5 to 180 minutes)											
		5	10	15	20	30	45	60	80	100	120	150	180
VIRGINIA—Continued													
Norfolk—Continued													
July 14, 1948		.43	.73	.99	1.05	1.07	1.10	1.11	1.13	1.14	1.15	....	1.19
July 22, 1948		.11	.31	.39	.42	.43	.52	.55	.56	.57	.57	....	.57
July 23, 1948		.25	.36	.46	.48	.49	.49	.49	.49	.50	....	....	.50
Aug. 4, 1948		.33	.49	.56	.62	.94	1.16	1.23	1.29	1.55	1.62	....	1.79
Aug. 19, 1948		.21	.35	.41	.45	.55	.66	.76	.78	.82	.85	....	.89
Sept. 7, 1948		.41	.61	.66	.75	.83	.85	.85	.85	.85	.85	....	.85
Feb. 22, 1949		.18	.29	.37	.38	.40	.40	.40	.40	.40	.40	....	.40
March 23, 1949		.13	.25	.38	.44	.54	.64	.73	.77	.78	.82	.98	1.05
June 5, 1949		.25	.31	.31	.31	.31	.31	.31	.31	.31	.32	.34	.35
July 13, 1949		.24	.45	.57	.67	.82	1.18	1.41	1.50	1.85	1.95	2.07	2.12
July 16, 1949		.37	.52	.65	.68	.68	.69	.69	.69	.69	.69	.69	.69
July 27, 1949		.25	.39	.45	.50	.58	.61	.77	.86	.87	.87	.87	.87
Aug. 1, 1949		.72	1.21	1.56	1.78	2.08	3.19	3.67	4.07	4.10	4.17	4.20	4.24
Aug. 13, 1949		.39	.53	.56	.79	.82	.85	1.22	1.28	1.33	1.33	1.37	1.37
Aug. 15, 1949		.15	.28	.38	.48	.63	.73	.80	.86	.89	.95	1.19	1.40
Aug. 18, 1949		.24	.40	.53	.55	.55	.55	.55	.55	.55	.55	.55	.55
Aug. 23, 1949		.46	.86	1.25	1.41	1.55	2.09	2.46	3.05	3.18	3.26	3.35	3.36
Aug. 28, 1949		.23	.38	.46	.47	.48	.48	.48	.48	.48	.48	.48	.48
Sept. 16, 1949		.27	.41	.46	.47	.49	.49	.49	.49	.49	.60	.80	.85
Oct. 31, 1949		.29	.33	.33	.33	.33	.33	.33	.33	.33	.35	.35	.35
Nov. 1, 1949		.25	.40	.48	.52	.58	.66	.71	.76	.82	.85	.87	.93
Richmond													
March 27, 1943		.39	.62	....	.81	.92	1.00	1.07	1.09	1.12	1.12	1.12	1.15
May 20, 1943		.22	.32	....	.47	.58	.73	.82	.84	.84	.84	.85	.87
June 11, 1943		.53	.91	....	1.39	1.42	1.42	1.42	1.42	1.43	1.46	1.49	1.49
July 5, 1943		.23	.42	....	.67	.99	1.01	1.04	1.05	1.05	1.05	1.05	1.05
July 6, 1943		.27	.42	....	.70	.88	1.10	1.21	1.24	1.25	1.27	1.27	1.27
July 26, 1943		.33	.43	....	.54	.80	.85	.97	1.04	1.09	1.09	1.09	1.09
June 6, 1944		.23	.32	.39	.42	.44	.47	.51	.53	.55	.58	....	.60
June 10, 1944		.19	.30	.37	.42	.44	.45	.45	.46	.48	.52	....	.52
July 13, 1944		.19	.32	.39	.46	.68	.79	.95	1.02	1.04	1.09	....	1.19
July 15, 1944		.25	.37	.44	.52	.54	.55	.55	.55	.55	.55	....	.55
July 17, 1944		.22	.44	.57	.76	.85	.87	.88	.89	.92	.92	....	.92
July 20, 1944		.14	.26	.38	.49	.67	.74	.76	.80	.85	.92	....	1.03
Aug. 1, 1944		.12	.21	.29	.38	.50	.63	.71	.85	.90	1.08	....	1.41
Aug. 6, 1944		.16	.27	.34	.45	.64	.82	.85	.85	.87	.89	....	.93
April 17, 1945		.18	.30	.34	.36	.45	.49	.51	.53	.54	.55	....	.57
May 17, 1945		.28	.51	.56	.59	.63	.74	.78	.84	.90	.90	....	1.02
July 5, 1945		.28	.40	.50	.52	.54	.55	.64	.65	.66	.71	....	.82
July 8, 1945		.43	.71	.88	.94	1.24	1.27	1.31	1.45	1.45	1.46	....	1.46
July 17-18, 1945		.35	.52	.71	.80	.88	1.19	1.45	1.65	1.73	1.85	....	2.34
July 24, 1945		.17	.27	.40	.46	.54	.55	.55	.55	.55	.55	....	.55
July 27, 1945		.21	.36	.52	.68	.89	.96	1.04	1.10	1.11	1.12	....	1.16
Aug. 7, 1945		.36	.49	.54	.55	.57	.60	.61	.63	.63	.63	....	.63
Aug. 13, 1945		.24	.37	.48	.65	.84	.92	.94	.95	.97	.98	....	.99
Sept. 6, 1945		.20	.31	.36	.37	.39	.40	.40	.40	.40	.40	....	.40
Sept. 9, 1945		.26	.45	.52	.52	.52	.77	.94	.95	.95	.95	....	.96
March 29, 1946		.34	.53	.54	.55	.57	.62	.65	.65	.66	.66	....	.66
May 12, 1946		.32	.40	.42	.43	.44	.47	.52	.55	.55	.55	....	.55
May 18, 1946		.41	.61	.76	.76	.76	.77	.77	.77	.77	.79	....	.82
June 14, 1946		.31	.38	.40	.41	.41	.41	.41	.41	.41	.41	....	.41
June 21, 1946		.29	.45	.50	.50	.51	.51	.51	.52	.52	.52	....	.52
June 22, 1946		.20	.33	.34	.35	.35	.36	.36	.36	.36	.36	....	.36
June 28, 1946		.15	.28	.41	.48	.60	.65	.67	.67	.67	.67	....	.80
July 2, 1946		.29	.43	.50	.56	.87	1.00	1.07	1.11	1.11	1.11	....	1.13
July 23, 1946		.21	.36	.54	.70	.80	.86	.89	.92	.92	.92	....	.92
July 23, 1946		.25	.42	.57	.72	.95	1.21	1.34	1.40	1.44	1.44	....	1.53
July 23, 1946		.23	.38	.42	.51	.76	1.03	1.21	1.25	1.29	1.55	....	2.32
July 25, 1946		.27	.41	.42	.42	.43	.45	.46	.50	.51	.53	....	.54
Aug. 23, 1946		.20	.38	.50	.61	.74	.83	.86	.92	.95	1.00	....	1.17
Aug. 29, 1946		.21	.41	.48	.51	.52	.52	.52	.52	.52	.57	....	.70
May 25, 1947		.36	.52	.56	.72	1.05	1.12	1.16	1.18	1.20	1.21	....	1.22
June 28, 1947		.22	.38	.48	.70	.90	1.12	1.18	1.47	1.54	1.65	....	1.87
Aug. 25, 1947		.30	.36	.42	.44	.47	.51	.51	.52	.54	.55	....	.97
Aug. 26, 1947		.26	.45	.61	.73	.80	.90	1.18	1.23	1.25	1.25	....	1.25
Sept. 24-25, 1947		.11	.17	.24	.32	.48	.68	.86	1.09	1.29	1.48	....	2.07
May 16, 1948		.27	.44	.45	.46	.49	.51	.51	.54	.55	.56	....	.94
June 27, 1948		.37	.56	.80	1.02	1.25	1.28	1.29	1.29	1.29	1.29	....	1.29
July 14, 1948		.69	1.29	1.79	2.08	2.29	2.31	2.41	2.48	2.48	2.50	....	2.67
July 23, 1948		.43	.59	.65	.85	1.15	1.26	1.29	1.29	1.29	1.29	....	1.29
Aug. 3, 1948		.26	.40	.45	.57	.78	.90	.93	.97	.98	1.24	....	1.28
Sept. 8, 1948		.26	.47	.58	.68	.68	.68	.68	.68	.68	.68	....	.68
Sept. 21, 1948		.24	.30	.40	.44	.50	.51	.55	.56	.56	.57	....	.58
Nov. 6, 1948		.19	.37	.42	.42	.46	.53	.62	.69	.74	.75	....	.80
May 2, 1949		.27	.40	.44	.49	.58	.88	.97	1.04	1.10	1.14	....	1.19
May 9, 1949		.14	.26	.37	.47	.66	.70	.72	.73	.73	.73	....	.73
May 15, 1949		.28	.42	.48	.54	.58	.97	1.13	1.18	1.28	1.31	....	1.31
June 18, 1949		.25	.42	.47	.48	.49	.50	.52	.52	.53	.53	....	.53
June 28, 1949		.24	.41	.64	.78	.87	.99	1.51	1.74	1.88	1.90	....	1.92
July 19, 1949		.20	.32	.34	.34	.37	.37	.37	.37	.37	.37	....	.37
July 30, 1949		.24	.37	.44	.44	.44	.44	.44	.44	.44	.45	....	.45
Aug. 9, 1949		.23	.33	.36	.37	.38	.38	.39	.39	.39	.39	....	.39
Aug. 13, 1949		.30	.39	.42	.44	.47	.55	.63	.73	.76	.79	.80	.82
Aug. 14, 1949		.21	.38	.57	.68	.83	1.03	1.05	1.05	1.06	1.09	1.09	1.09
Aug. 28, 1949		.37	.58	.67	.75	.86	.99	1.06	1.16	1.19	1.23	1.27	1.31
Sept. 8, 1949		.31	.42	.45	.47	.49	.49	.49	.49	.49	.49	....	.49
Sept. 18, 1949		.25	.48	.61	.64	.67	.68	.68	.69	.69	.69	.69	.69
Oct. 30, 1949		.41	.73	1.00	1.26	1.45	1.56	1.66	2.12	2.21	2.23	2.29	2.35
WASHINGTON													
North Head													
Oct. 16, 1943		.25	.39	....	.45	.45	.46	.47	.51	.56	.60	.61	.61
1944 and 1945--None													
Oct. 20, 1946		.23	.30	.33	.36	.46	.48	.53	.56	.59	.63	....	.65
July 24, 1947		.20	.26	.34	.38	.52	.60	.72	.79	.84	.85	....	.93
Aug. 8, 1947		.33	.53	.58	.60	.60	.61	.65	.66	.66	.66	....	.66
1948--None													
Dec. 1, 1949		.18	.35	.45	.51	.57	.62	.64	.69	.72	.74	.79	.82
Seattle													
1943 through 1949--- None													
Spokane													
(Felts Field Airport)													
Aug. 21, 1943		.46	.72	....	.81	.83	.87	.93	.96	.98	.98	.98	.98
June 16, 1944		.27	.30	.30	.31	.33	.34	.38	.39	.40	.40	....	.43
1945--None													
May 26, 1946		.26	.36	.40	.43	.47	.51	.54	.55	.55	.57	....	.61
1947 through 1949--- None													

EXCESSIVE SHORT DURATION RAINFALL

Station and date		Maximum precipitation in inches (5 to 180 minutes)											
		5	10	15	20	30	45	60	80	100	120	150	180
WISCONSIN—Cont'd													
Madison—Continued													
July 23, 1944	.36	.53	.60	.61	.61	.61	.62	.62	.62	.62	....	.62
June 1, 1945	.16	.21	.36	.42	.50	.53	.54	.57	.66	.68	....	.68
June 24, 1945	.26	.43	.50	.51	.52	.53	.53	.55	.58	.58	....	.58
Aug. 1, 1945	.34	.41	.43	.44	.45	.53	.55	.55	.55	.55	....	.55
Sept. 23, 1945	.27	.39	.48	.53	.59	.64	.65	.67	.73	.75	....	.79
June 11, 1946	.17	.33	.40	.53	.62	.66	.67	.68	.68	.69	....	.78
July 9, 1946	.33	.62	.71	.75	.78	.79	.79	.79	.79	.79	....	.79
Aug. 9, 1946	.32	.58	.73	.76	.86	.96	.97	.99	1.01	1.03	....	1.04
Oct. 24, 1946	.21	.33	.34	.37	.45	.54	.63	.68	.68	.69	....	.71
July 13, 1947	.33	.56	.65	.72	.74	.78	.80	.84	.90	.91	....	.91
July 26-27, 1947	.18	.26	.32	.36	.57	.69	.75	.87	.93	.96	....	1.20
Aug. 24, 1947	.19	.32	.35	.37	.49	.61	.63	.64	.64	.65	....	.65
Aug. 28, 1947	.23	.38	.46	.55	.72	.78	.79	.81	.83	.84	....	.87
Sept. 4, 1947	.24	.41	.62	.78	1.05	1.25	1.34	1.41	1.49	1.53	....	1.72
June 27, 1948	.32	.52	.68	.77	.82	.82	.82	.82	.90	.90	....	.90
July 29-30, 1948	.44	.70	.87	.88	.89	.89	.89	.89	.89	.89	....	1.03
June 27, 1949	.36	.58	.76	1.05	1.22	1.27	1.32	1.33	1.33	1.38	1.52	1.55	
July 27-28, 1949	.26	.42	.51	.56	.61	.64	.65	.67	.67	.67	.81	.86	
July 8, 1949	.38	.61	.79	.93	1.23	1.62	1.82	1.97	2.11	2.16	2.37	2.52	
July 26, 1949	.29	.43	.52	.53	.53	.57	.59	.59	.59	.60	.61	.93	
Aug. 10, 1949	.20	.30	.43	.60	.70	.74	.78	.84	.90	.94	.95	.95	
Milwaukee													
(General Mitchell Field--Airport)													
June 21, 1943	.18	.35	....	.56	.60	.61	.65	.65	.65	.65	.65	.65
Aug. 26, 1943	.28	.48	....	.55	.55	.56	.56	.56	.56	.56	.56	.56
May 15, 1944	.32	.58	.69	.75	.83	.87	.89	.93	.97	1.00	....	1.06
June 22, 1944	.36	.50	.52	.52	.53	.53	.53	.53	.53	.53	....	.53
June 20, 1945	.25	.39	.54	.62	.70	.84	.87	.94	.96	.97	....	.98
July 9, 1945	.40	.52	.54	.62	.65	.67	.67	.68	.68	.68	....	.68
July 31, 1945	.14	.25	.37	.45	.52	.54	.54	.56	.60	.65	....	.67
Aug. 21, 1945	.14	.26	.39	.49	.53	.56	.57	.57	.57	.57	....	.57
Aug. 29, 1945	.25	.28	.45	.52	.55	.56	.57	.57	.57	.57	....	.57
Sept. 19, 1945	.49	.69	.78	.93	.97	.98	.99	1.00	1.01	1.01	....	1.16
Oct. 30, 1946	.18	.31	.40	.43	.47	.48	.48	.49	.50	.51	....	.52
Dec. 27, 1946	.20	.27	.36	.39	.41	.43	.44	.45	.45	.45	....	.45
June 13, 1947	.39	.50	.53	.57	.59	.65	.71	.74	.77	.77	....	.78
Aug. 7, 1947	.26	.45	.59	.67	.85	.96	1.00	1.01	1.03	1.04	....	1.04
Sept. 4, 1947	.33	.44	.49	.55	.55	.80	.84	.88	.89	.92	....	1.07
Sept. 5, 1947	.14	.26	.36	.45	.64	.85	1.02	1.25	1.36	1.46	....	1.51
June 28, 1948	.23	.41	.48	.61	.69	.74	.75	.81	1.14	1.27	....	1.40
July 4, 1948	.20	.35	.44	.45	.46	.47	.47	.47	.47	.47	....	.47
July 22, 1948	.28	.53	.59	.62	.62	.67	.67	.67	.67	.69	....	.94
June 14, 1949	.30	.42	.50	.54	.63	.65	.66	.98	1.10	1.11	1.14	1.18	
July 26, 1949	.22	.36	.52	.72	.88	1.14	1.23	1.34	1.41	1.48	1.50	1.52	
WYOMING													
Cheyenne													
(Airport)													
1943--None													
June 9, 1944	.29	.39	.43	.44	.45	.46	.46	.46	.46	.46	....	.46
July 10, 1944	.45	.70	1.01	1.17	1.22	1.22	1.23	1.23	1.23	1.23	....	1.23
July 19, 1944	.18	.28	.36	.47	.65	.76	.81	.87	.88	.88	....	1.04
Aug. 1, 1945	.23	.31	.42	.44	.45	.45	.45	.45	.45	.45	....	.45
Aug. 26, 1946	.66	.98	1.06	1.12	1.31	1.45	1.45	1.45	1.45	1.45	....	1.45
June 20, 1947	.26	.44	.60	.74	.92	.98	1.06	1.10	1.12	1.13	....	1.25
July 20, 1947	.23	.44	.71	.90	1.25	1.25	1.26	1.26	1.26	1.26	....	1.26
June 27, 1948	.29	.31	.43	.47	.50	.54	.54	.55	.58	.87	....	.91
July 14, 1948	.16	.24	.41	.44	.44	.45	.45	.45	.45	.45	....	.45
July 18, 1948	.14	.25	.36	.38	.39	.41	.42	.42	.42	.43	....	.43
July 14, 1949	.18	.31	.46	.52	.53	.56	.57	.59	.59	.59	.59	.64	
Aug. 14, 1949	.14	.24	.32	.42	.61	.75	.84	.91	.94	.94	.95	.95	
+ Lander													
1943--None													
May 17, 1944	.26	.45	.49	.50	.53	.53	.60	.62	.62	.63	....	.63
1945 through 1947---None													
July 14, 1948	.21	.32	.34	.35	.36	.38	.39	.39	.40	.40	....	.40
1949--None													
Sheridan													
(County Airport)													
June 11, 1943	.22	.35	....	.58	.77	.86	.92	.96	.97	.97	1.02	1.21
July 27, 1943	.45	.73	....	.87	.95	.95	.96	.96	.97	.98	.99	.99
June 21, 1944	.18	.28	.38	.44	.57	.61	.73	.82	.82	.82	....	.82
July 25, 1944	.16	.26	.35	.43	.52	.55	.55	.61	.63	.65	....	.66
Aug. 13, 1945	.56	.70	.82	.83	.84	.85	.85	.85	.85	.85	....	.85
June 24, 1946	.31	.39	.50	.60	.84	1.14	1.30	1.47	1.51	1.52	....	1.67
1947--None													
June 16, 1948	.43	.48	.49	.50	.50	.50	.50	.50	.50	.50	....	.50
July 13, 1948	.27	.39	.41	.47	.52	.83	1.01	1.06	1.09	1.10	....	1.11
July 18, 1948	.29	.38	.39	.39	.40	.40	.40	.40	.40	.40	....	.40
1949--None													
TERRITORY of HAWAII													
Honolulu													
Jan. 3, 1943	.29	.40	....	.48	.65	.66	.72	.72	.73	.73	.73	.73
Jan. 4, 1943	.37	.73	....	1.30	1.78	2.44	2.87	3.10	3.30	3.60	4.02	4.38
Jan. 4-5, 1943	.33	.46	....	.82	.99	1.08	1.15	1.25	1.31	1.41	1.46	1.57
Jan. 13, 1943	.29	.50	....	.70	.77	.87	.88	.88	.95	1.02	1.08	1.13
March 9, 1943	.41	.56	....	.81	.98	1.19	1.23	1.36	1.40	1.48	1.53	1.58
Feb. 29, 1944	.30	.37	.57	.62	.63	.63	.65	.66	.67	.68	....	.68
March 7, 1944	.22	.36	.42	.47	.55	.60	.63	.65	.69	.70	....	.75
March 20, 1944	.16	.30	.43	.56	.77	.96	1.08	1.15	1.15	1.15	....	1.21
March 23, 1944	.25	.32	.36	.38	.42	.44	.45	.45	.45	.45	....	.45
April 8, 1945	.33	.50	.64	.87	1.23	1.30	1.31	1.31	1.31	1.32	....	1.34
April 20, 1945	.20	.31	.36	.40	.46	.54	.57	.69	.84	.82	....	1.24
July 23, 1945	.19	.36	.42	.47	.55	.63	.68	.69	.69	.69	....	.69
July 25, 1945	.14	.22	.32	.39	.58	.79	.85	.86	.87	1.00	....	1.17
Jan. 27, 1946	.28	.41	.41	.41	.42	.44	.44	.51	.51	.52	....	.60
Jan. 31, 1946	.30	.36	.38	.43	.52	.77	.90	1.14	1.23	1.23	....	1.25
Nov. 15, 1946	.38	.62	.72	.76	.89	.95	.96	.96	.96	.96	....	.96
Dec. 6-7, 1946	.13	.23	.34	.42	.58	.65	.66	.67	.77	.77	....	.77
Dec. 9-10, 1946	.32	.42	.43	.45	.46	.46	.51	.52	.53	.59	....	.65
Dec. 17, 1946	.25	.45	.52	.53	.54	.56	.58	.85	.93	.95	....	.96
Jan. 16, 1947	.20	.38	.53	.60	.67	.71	.72	.72	.72	.72	....	.72
March 30, 1947	.29	.50	.66	.72	.75	.76	.76	.76	.76	.76	....	.76
Sept. 4, 1947	....	....	....	....	....	....	....	....	....	....	....	.99

EXCESSIVE SHORT DURATION RAINFALL

Table 14-Continued

Station and date		Maximum precipitation in inches (5 to 180 minutes)											
		5	10	15	20	30	45	60	80	100	120	150	180
TERRITORY of HAWAII (Continued)													
Honolulu-Continued													
Sept. 12, 1947	.38	.56	.67	.75	.75	.75	.75	.75	.75	.75	....	....
Feb. 25, 1948	.27	.40	.56	.61	.71	.84	.88	.93	.94	.94	....	....	.94
April 2, 1948	.27	.47	.66	.82	1.11	1.27	1.31	1.35	1.37	1.37	....	....	1.39
Nov. 7, 1948	.27	.43	.53	.62	.80	1.04	1.22	1.31	1.32	1.33	....	....	1.48
Jan. 8, 1949	.38	.69	.87	.95	1.09	1.28	1.56	1.81	1.84	1.84	1.85	1.85	
Feb. 8, 1949	.18	.33	.46	.53	.64	.75	.84	1.06	1.24	1.36	1.55	1.63	
PUERTO RICO													
San Juan													
April 5, 1943	.28	.48	....	.76	.91	1.23	1.35	1.37	1.58	1.69	1.73	1.75	
May 13, 1943	.26	.51	....	.73	.79	.81	.84	.86	.86	.86	.87	.87	
June 16, 1943	.23	.38	....	.71	.93	1.12	1.20	1.26	1.29	1.32	1.36	1.41	
July 24, 1943	.22	.42	....	.61	.70	.72	.72	.72	.72	.72	.72	.72	
Aug. 4, 1943	.40	.51	....	.54	.54	.54	.54	.54	.54	.55	.55	.55	
Aug. 8-9, 1943	.40	.57	....	.59	.59	.59	.60	.60	.60	.60	.60	.68	
* Oct. 14, 1943	....	....	....	....	....	....	....	....	....	....	....	....
July 29, 1944	.32	.60	.69	.71	.81	1.26	1.27	1.27	1.28	1.29	....	1.29	
Aug. 15, 1944	.36	.68	.96	1.19	1.65	2.35	3.11	4.09	4.50	4.93	....	5.61	
Sept. 18, 1944	.30	.51	.71	.93	1.36	1.72	1.87	1.95	2.01	2.03	....	2.05	
Feb. 3, 1945	.29	.55	.69	.72	.76	.86	.94	1.06	1.20	1.27	....	1.52	
May 14, 1946	.30	.52	.65	.69	.72	.73	.73	.75	.77	.80	....	.85	
June 14, 1946	.31	.57	.79	.87	1.05	1.62	1.85	1.89	1.89	1.93	....	2.01	

* Excessive not computed; faulty register.

This table contains statistics of maximum amounts of rainfall during the calendar years 1943 through 1949. Data presented in this table are generally from stations equipped with tipping bucket recording gages. Stations are at city office locations unless otherwise shown.

Published excessive precipitation data prior to 1896 consist of maximum amounts of rainfall in 5 and 10 minute periods, also in 1 and 24 hours.

Excessive precipitation data for the years 1896-1935 inclusive, generally present the accumulated amounts of precipitation for 5, 10, or 20-minute intervals during storms in which the rate of fall equalled or exceeded .25 inch in any 5-minute period, or .30 in any 10 minute period, or .35 in any 15-minute period, etc., the tabulation beginning with the 5-minute period where the rate of .05 inch in 5 minutes began and continuing by 10 or 20-minute intervals for the duration of the excessive precipitation, or up to 120 minutes. A detailed explanation of the method used may be found in the publications listed in the last paragraph of this explanation.

The present method, adopted with data for the calendar year 1936, gives the maximum fall of precipitation for the periods 5 to 180 minutes, the maximum amounts being taken for the periods in which the fall is greatest for the given time, and are tabulated to show maximum amounts for 5, 10, 15, 20, 30, 45, 60, 80, 100, 120, 150 and 180 minutes, even if the fall does not equal the excessive rate for some of the periods. (The 15 minute amount was not computed for 1936-1943 and the 150 minute amount was not computed for 1944 through 1948.)

The following Table A shows limits at which precipitation was considered excessive for all sections, except North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, Arkansas, Louisiana, Texas, Oklahoma, and San Juan, P. R. for the years 1936 through 1948:

TABLE A

Dura- tion (in min- utes)	Depth of precipi- tation (in inches)	Dura- tion (in min- utes)	Depth of precipi- tation (in inches)
5	.25	60	.80
10	.30	80	1.00
15	.35	100	1.20
20	.40	120	1.40
30	.50	150	1.70
45	.65	180	2.00

Station and date		Maximum precipitation in inches (5 to 180 minutes)											
		5	10	15	20	30	45	60	80	100	120	150	180
PUERTO RICO-Cont'd													
San Juan-Continued													
May 30, 1947	.31	.47	.69	.84	.99	1.03	1.04	1.05	1.05	1.12	....	1.13	
June 2, 1947	.43	.77	1.04	1.14	1.26	1.31	1.38	1.39	1.40	1.61	....	1.90	
Aug. 10, 1947	.36	.58	.88	1.12	1.58	1.84	2.02	2.18	2.19	2.33	....	2.36	
Aug. 28, 1947	.41	.77	1.04	1.26	1.54	1.62	1.63	1.69	1.70	1.71	....	1.72	
Sept. 22, 1947	.34	.59	.74	.84	.97	1.08	1.09	1.10	1.10	1.11	....	1.11	
Dec. 4, 1947	.35	.63	.75	.79	.81	.81	.82	.82	.85	.86	....	1.20	
May 26, 1948	.35	.57	.71	.87	1.06	1.30	1.40	1.41	1.42	1.43	....	1.43	
June 7, 1948	.41	.78	1.02	1.19	1.40	1.48	1.49	1.49	1.50	1.62	....	1.67	
July 3, 1948	....	....	.51	.68	.93	1.07	1.09	1.09	1.09	1.09	....	1.09	
Dec. 1, 1948	.41	.50	.53	.53	.57	.61	.63	.63	.63	.63	....	.63	
Dec. 2, 1948	.39	.54	.54	.61	.62	.62	.62	.65	1.17	1.20	....	1.59	
Jan. 3, 1949	.33	.36	.47	.48	.48	.48	.48	.48	.56	.63	.82	.88	
Jan. 5, 1949	.18	.29	.31	.37	.60	.61	.63	.65	.66	.66	.66	.66	
Jan. 10, 1949	.24	.34	.36	.38	.39	.39	.39	.47	.59	.64	.64	.64	
May 5, 1949	.24	.34	.43	.49	.61	.63	.63	.71	.74	.74	.79	.97	
June 18, 1949	.31	.46	.50	.54	.60	.71	.97	1.17	1.37	1.39	1.43	1.43	
June 22, 1949	.28	.37	.38	.39	.54	.60	.63	.64	.66	.74	.84	.87	
June 27, 1949	.32	.47	.53	.55	.61	.67	.67	.67	.67	.67	.67	.67	
July 9, 1949	.37	.59	.75	.80	.81	.90	.96	.99	1.01	1.02	1.06	1.07	
July 24, 1949	.17	.28	.39	.42	.51	.56	.56	.60	.63	.68	.97	1.19	
July 27, 1949	.33	.35	.35	.36	.36	.36	.63	.68	.68	.69	.74	.81	
Aug. 22, 1949	.26	.33	.36	.43	.58	.63	.63	.63	.63	.63	.73	.73	
Dec. 2, 1949	.27	.44	.61	.76	1.07	1.27	1.76	1.83	1.84	1.84	1.84	1.84	
Dec. 7, 1949	.23	.37	.52	.58	.81	.97	1.10	1.10	1.10	1.10	1.14	1.17	
Dec. 31, 1949	.27	.41	.53	.59	.65	.73	.81	.90	.93	.93	1.19	1.19	

This table is made up from the formula, $A = t + 20$ where A is the accumulated depth in hundredths of inches and t is the time in minutes.

For the southern sections listed above Table B was used for the years 1936 through 1948. This table is made up from the formula $A = 2t + 30$.

TABLE B

Dura- tion (in min- utes)	Depth of precipi- tation (in inches)	Dura- tion (in min- utes)	Depth of precipi- tation (in inches)
5	.40	60	1.50
10	.50	80	1.90
15	.60	100	2.30
20	.70	120	2.70
30	.90	150	3.30
45	1.20	180	3.90

Use of Table B was discontinued at the end of 1948 and Table A was used for 1949 for all sections.

Publication of Data. A summary of maximum precipitation data for the years prior to 1897 is published in the annual report of the Chief of the Weather Bureau for 1895-1896. Data for the years 1896 through 1934 have been published in the appropriate annual reports of the Chief of the Weather Bureau. For the years 1935 through 1949 these data are published in the United States Meteorological Yearbook. Data for 1950 and for succeeding years will be found in the annual issue of the Climatological Data, National Summary.

Table 15

TOTAL EVAPORATION AND WIND MOVEMENT

YEAR 1943

State and Station	January	February	March	April	May	June	July	August	September	October	November	December	Annual
ALABAMA													
Fairhope	1.54	2.64	3.45	5.34	6.24	5.52	5.67	6.04	3.80	3.67	2.56	1.27	47.74
ARIZONA													
Bartlett Dam	3.31	5.07	7.39	11.29	14.98	16.77	16.11	11.09	12.40	8.79	7.75	4.23	119.18
Mesa	2.74	4.66	5.80	8.09	10.80	11.76	11.44	9.27	8.62	6.31	4.30	2.66	86.45
Roosevelt	1.49	2.65	5.00	8.06	12.26	13.93	13.37	11.44	9.52	5.88	3.16	1.71	88.47
Safford	1.65	3.33	5.18	7.66	9.83	9.74	8.72	7.30	6.28	4.64	3.32	1.78	69.43
Sierra Ancha	1.94	2.81	4.55	7.34	9.42	10.46	10.03	7.67	7.95	5.56	4.07	1.90	73.70
Tucson-Univ. of Arizona	1.67	3.30	6.07	8.86	11.61	12.04	11.71	7.97	8.47	4.27	2.42	1.23	79.62
Yuma (Citrus)	4.28	5.18	8.03	10.42	14.32	13.77	16.11	13.86	10.57	8.22	5.60	2.83	113.19
ARKANSAS													
Bethesda	-	-	-	7.20	7.14	7.45	9.97	10.38	5.95	5.27	-	-	-
Hope	-	-	3.46	5.34	5.82	7.16	8.33	9.44	5.41	3.84	2.33	1.36	-
Mena (Iron Forks)	-	-	-	4.66	4.67	-	-	-	-	-	-	-	-
Nimrod Dam	-	-	-	-	-	-	-	-	-	4.03	2.76	1.22	-
Russellville	-	-	-	5.68	4.67	6.11	8.12	9.33	5.55	4.35	-	-	-
Stuttgart	-	-	2.42	4.85	6.68	6.92	7.50	9.10	4.37	3.82	1.88	-	-
CALIFORNIA													
Beaumont	4.54	5.49	4.04	5.55	9.89	10.91	13.04	12.43	10.70	7.18	7.77	3.33	94.87
Boca	-	-	-	-	8.22	7.88	9.83	10.17	7.16	4.16	-	-	-
Chula Vista	3.04	3.38	4.61	5.25	7.02	7.07	7.89	7.52	6.21	4.68	3.92	2.71	63.30
Davis	1.61	1.54	2.55	5.24	9.89	9.66	10.99	9.84	7.23	4.93	2.22	1.69	67.39
Fall River Mills	-	1.30	2.62	4.74	7.13	7.62	10.71	10.23	7.37	3.56	1.30	-	-
Friant	1.15	1.83	2.80	5.08	11.45	12.54	15.20	12.94	9.35	6.17	3.07	1.53	83.11
Lodi	1.13	1.39	3.26	5.23	10.12	9.93	11.67	9.42	7.76	4.04	1.93	1.79	67.67
Mojave (Backus Ranch)	3.26	3.74	6.24	9.01	14.86	14.24	17.49	17.47	12.68	7.30	4.15	2.58	113.02
Newark	1.44	1.88	2.62	4.44	8.35	8.22	8.77	8.05	6.76	4.42	2.16	1.85	58.96
Oakdale	1.03	1.06	-	4.46	10.78	10.50	-	-	8.23	4.62	-	-	-
Tahoe	-	-	-	-	3.53	3.61	4.54	5.40	3.48	1.57	-	-	-
Valley Springs (Camp Pardee)	.84	.95	1.78	3.18	7.78	9.01	11.46	10.21	6.86	3.37	1.56	.92	57.92
COLORADO													
Conejos Dam	-	-	-	9.04	10.36	11.50	7.58	6.70	6.90	4.68	-	-	-
John Martin Dam	-	-	-	8.08	7.62	12.42	13.44	11.82	8.85	5.92	2.42	-	-
Montrose	-	1.99	3.29	6.91	6.88	8.62	10.31	6.13	5.78	4.03	1.84	.87	-
Pueblo	-	3.91	-	7.90	6.58	11.24	12.14	10.27	8.16	5.60	2.84	1.98	-
Wagon Wheel Gap	-	-	-	-	7.45	8.62	7.97	4.35	5.00	-	-	-	-
FLORIDA													
Belle Glade	3.53	4.40	5.91	6.53	7.18	5.99	6.62	6.46	5.80	5.16	3.45	2.92	63.95
Big Cypress	3.27	4.06	6.01	6.56	7.63	6.01	-	6.34	-	-	3.30	-	-
Hialeah	3.76	4.59	6.77	6.23	7.60	7.21	6.14	6.05	5.37	4.93	3.87	2.92	65.44
Lake Hiwassee	3.12	3.93	5.73	7.13	7.93	-	-	5.26	4.46	3.73	3.19	2.33	-
Loxahatchee	3.25	4.08	5.90	6.25	7.60	7.13	6.33	5.78	7.14	5.61	3.88	2.78	65.73
Moore Haven	3.18	3.93	5.35	6.28	6.88	5.40	4.82	5.47	4.60	4.91	3.66	3.04	57.52
Tamiami Trail	4.00	4.90	6.82	7.18	7.72	6.58	6.29	6.10	7.31	5.26	4.57	3.20	69.93
GEORGIA													
Experiment	2.10	3.20	4.06	7.01	7.97	8.28	7.54	7.52	5.81	4.37	2.98	-	-
Tifton	2.43	3.29	4.09	6.32	7.34	7.76	6.88	6.83	5.15	4.66	2.81	-	-
IDAHO													
Aberdeen	-	-	-	5.34	6.91	6.99	9.24	7.76	5.63	2.69	-	-	-
Arrowrock Dam	-	-	-	-	6.42	6.48	10.69	9.91	7.01	-	-	-	-
Lifton	-	-	-	4.70	6.47	7.31	9.20	8.72	6.39	3.47	-	-	-
Milner Dam	-	-	-	-	-	-	10.08	8.98	6.34	-	-	-	-
Moscow	-	-	-	-	4.19	4.23	-	-	3.58	-	-	-	-
ILLINOIS													
Springfield	-	-	-	4.79	5.38	6.68	8.46	7.95	5.58	3.57	1.69	-	-
INDIANA													
Indianapolis	-	-	-	3.90	4.37	6.55	6.45	5.52	3.56	-	-	-	-
IOWA													
Ames	-	-	-	5.21	5.39	7.49	7.82	6.13	4.64	3.31	-	-	-
Cherokee	-	-	-	5.39	6.14	7.30	7.75	6.31	4.66	3.41	-	-	-
Clarinda	-	-	-	6.36	6.02	7.88	8.44	6.19	5.11	3.69	-	-	-
Iowa City	-	-	-	4.64	4.46	6.11	6.83	5.53	3.99	2.76	-	-	-
KANSAS													
Hays	-	-	-	10.17	8.90	15.36	15.77	16.16	9.69	6.56	-	-	-
Manhattan	-	-	-	8.91	6.98	10.70	9.16	10.16	7.17	4.40	-	-	-
Tribune	-	-	-	6.88	6.12	9.97	11.51	9.88	7.59	-	-	-	-
KENTUCKY													
Eadsville (Lock 21)	-	-	-	3.41	5.28	6.36	5.98	5.10	3.19	2.40	-	-	-
LOUISIANA													
Hackberry	3.12	3.97	4.66	6.54	8.69	6.66	9.20	8.54	6.56	6.55	3.77	2.86	71.12
MARYLAND													
Beltsville	-	-	-	-	6.46	7.61	7.54	8.34	5.29	3.36	2.24	-	-
MICHIGAN													
Germfask	-	-	-	-	4.82	5.03	7.29	4.69	2.93	2.22	-	-	-
MISSISSIPPI													
Vicksburg	1.91	2.70	3.62	5.35	6.67	7.85	7.53	8.30	4.66	3.78	2.00	-	-
MISSOURI													
Lakeside	1.29	2.34	3.28	5.82	-	-	-	-	-	-	-	-	-
Washington U. (St.Louis)	-	-	-	4.37	4.00	5.96	6.67	5.83	4.00	2.74	1.66	-	-
MONTANA													
Bozeman	-	-	-	4.27	3.69	5.88	7.59	6.62	4.04	3.01	-	-	-
Fort Peck	-	-	-	-	5.93	6.71	9.43	8.82	5.43	-	-	-	-
Malta	-	-	-	6.12	5.48	5.57	6.52	7.52	4.33	2.83	-	-	-
Sherburne Lake	-	-	-	-	4.53	4.90	8.04	7.24	5.64	2.43	-	-	-
Valier	-	-	-	-	4.59	4.56	6.34	7.54	6.42	-	-	-	-
NEBRASKA													
Bridgeport	-	-	-	5.66	4.59	6.37	8.84	7.26	5.15	3.40	-	-	-
Kingsley Dam	-	-	-	-	5.55	8.01	10.63	8.56	6.24	3.58	-	-	-
Lincoln	-	-	-	6.81	6.22	7.92	8.94	8.10	5.50	4.24	-	-	-
NEVADA													
Boulder City	4.10	4.66	7.32	10.57	15.80	17.52	16.96	14.48	12.18	8.01	4.93	3.04	119.57
Lahontan	-	-	-	9.10	11.96	11.85	15.52	15.05	10.33	5.09	2.00	-	-
Lamoille	-	-	-	4.97	6.45	6.88	9.96	10.07	7.64	4.02	-	-	-
Ruby Lake	-	-	-	-	8.06	8.13	10.94	11.41	7.63	-	-	-	-
Rye Patch Dam	-	-	-	7.68	10.16	10.29	15.14	14.04	10.59	5.09	-	-	-
NEW HAMPSHIRE													
Massabesic Lake	-	-	-	-	4.65	6.15	6.46	4.84	3.53	2.27	-	-	-

Table 15-Continued

TOTAL EVAPORATION AND WIND MOVEMENT

YEAR 1943

State and Station	January	February	March	April	May	June	July	August	September	October	November	December	Annual
NEW JERSEY													
Canoe Brook	-	-	-	-	-	-	-	3.70	2.21	1.00	-	-	-
Pleasantville	-	-	-	-	5.31	7.83	6.43	6.56	4.36	2.65	1.84	-	-
Runyon	-	-	-	-	4.46	6.78	6.60	7.00	4.27	2.46	-	-	-
NEW MEXICO													
Agr. College	3.13	5.30	7.92	9.91	12.80	13.83	11.48	11.84	10.40	6.87	4.25	2.14	99.87
Alamogordo Dam	3.38	5.38	7.89	10.66	13.27	13.41	12.19	14.86	9.89	8.09	4.36	-	-
Caballo Dam	3.58	5.70	8.44	11.84	15.66	15.82	12.38	13.98	9.72	7.71	4.47	2.22	111.52
Conchas Dam	-	-	7.53	10.46	12.46	14.72	11.75	11.96	9.08	7.57	3.63	-	-
Eagle Nest	-	-	-	-	8.07	-	6.94	7.60	5.59	3.66	-	-	-
Elephant Butte	3.84	5.84	8.73	13.23	15.96	17.44	13.14	13.96	10.61	8.54	5.64	2.74	119.66
El Vado Dam	-	-	-	-	8.99	9.88	9.83	7.65	7.19	-	-	-	-
Farmington	.77	1.54	3.33	7.16	7.59	6.89	6.77	6.02	5.51	3.52	1.90	.54	51.54
Florida	-	5.18	-	-	-	-	-	-	-	-	-	-	-
Jornada	2.95	-	7.63	11.41	14.93	15.58	11.70	12.40	8.92	6.89	4.53	1.57	-
Lake McMillan	4.30	6.19	9.04	9.97	11.48	16.18	11.96	15.40	10.60	8.33	4.82	-	-
Las Vegas	-	-	-	7.98	9.70	10.91	9.61	8.70	6.18	4.93	-	-	-
Navaajo	-	-	-	8.79	14.87	14.48	-	-	-	-	-	-	-
Portales	2.95	4.69	7.25	9.05	10.13	12.49	10.45	13.40	9.44	7.57	4.84	3.08	95.34
Roswell #2	2.40	3.70	5.16	8.21	9.94	11.69	8.88	8.52	6.21	5.53	4.21	-	-
NEW YORK													
Alcove Dam	-	-	-	-	4.48	5.85	6.43	4.76	3.70	2.02	-	-	-
Ithaca	-	-	-	-	3.76	5.81	5.96	4.76	3.92	2.19	-	-	-
NORTH CAROLINA													
Chapel Hill	1.00	1.58	2.47	4.35	5.13	5.69	4.26	5.53	3.18	2.15	1.30	-	-
OHIO													
Charles Mill Dam	-	-	-	2.96	4.18	7.47	6.12	5.35	4.11	2.63	-	-	-
Dayton	-	-	-	3.52	4.55	6.72	6.38	6.01	3.84	2.49	-	-	-
Ohio State University	-	-	-	2.81	3.72	5.34	4.40	4.11	3.02	2.01	-	-	-
Senecaville Dam	-	-	-	3.68	4.91	6.60	6.68	5.58	4.47	2.46	-	-	-
Wooster	-	-	-	-	-	-	-	-	-	-	-	-	-
OKLAHOMA													
Fort Supply Dam	-	-	-	-	7.21	11.96	10.69	15.18	10.15	6.56	-	-	-
Grand River Dam	-	-	3.48	7.20	6.37	8.32	11.19	11.92	7.46	4.20	2.88	-	-
Lake Carl Blackwell	-	-	-	7.91	6.42	8.79	10.29	12.69	8.17	5.08	-	-	-
Norman	-	-	-	6.27	5.15	8.14	10.13	10.08	7.39	4.46	2.66	-	-
Tipton	-	-	-	8.90	8.34	11.87	13.36	15.17	9.76	6.38	-	-	-
OREGON													
Corvallis	-	-	-	2.82	3.79	3.97	6.41	4.97	4.19	-	-	-	-
Cottage Grove	-	-	-	-	-	-	-	7.11	5.33	2.13	.81	.36	-
Fern Ridge	-	-	-	-	-	-	-	7.28	6.16	1.78	.54	-	-
Medford	.38	1.37	2.80	3.69	5.62	5.67	8.26	6.92	5.26	2.11	.42	.53	43.03
Warm Springs	-	-	-	4.60	6.48	6.64	11.12	9.80	6.78	-	-	-	-
Wickiup Dam	-	-	-	-	6.19	5.74	9.30	7.88	7.41	2.35	-	-	-
PENNSYLVANIA													
Pymatuning Dam	-	-	-	-	-	6.43	5.28	4.46	3.00	-	-	-	-
Shaver Creek	-	-	-	-	5.61	5.73	5.48	4.98	3.58	-	-	-	-
Wallenpaupack	-	-	-	-	-	5.94	6.18	5.59	3.44	-	-	-	-
TENNESSEE													
Neptune (Lock A)	-	3.67	4.07	5.00	5.79	7.35	6.89	6.55	3.70	3.06	1.89	-	-
TEXAS													
Austin	2.65	4.16	5.74	7.69	9.21	8.50	9.48	10.78	7.14	5.70	3.55	1.55	76.15
Balmorhea	3.25	4.80	6.66	9.17	9.57	9.17	8.80	12.17	7.04	5.61	3.52	1.98	81.74
Dennison Dam	-	4.06	4.84	7.78	7.45	9.30	11.10	14.72	7.60	5.07	3.44	1.43	-
Dilley	2.69	4.78	6.58	7.67	-	-	-	-	6.06	6.51	3.75	2.69	-
Fort Stockton	4.40	-	-	-	-	-	-	-	-	-	-	-	-
Grand Falls	5.19	7.40	9.60	12.69	15.39	14.40	14.24	14.72	8.38	6.87	4.31	2.00	115.19
Red Bluff	4.50	6.22	9.84	10.62	14.60	15.44	12.08	16.33	10.09	7.40	4.70	-	-
Ysleta	3.00	5.97	8.82	11.18	14.37	13.66	11.28	12.30	8.19	6.72	4.01	2.07	101.57
UTAH													
Bear River	-	-	-	-	8.18	9.79	16.35	10.61	7.44	-	-	-	-
Fort Duchesne	-	-	-	6.61	8.05	7.73	8.51	6.66	6.15	3.46	-	-	-
Moon Lake	-	-	-	-	-	-	8.30	6.41	-	-	-	-	-
Plute Dam	-	-	-	-	-	9.71	9.73	7.34	7.21	-	-	-	-
Utah Lake	-	-	3.15	7.14	9.09	10.22	10.79	10.04	7.26	4.17	1.29	-	-
WASHINGTON													
Beverly	-	-	-	6.69	8.78	-	-	-	-	-	-	-	-
Lake Kachess	-	-	-	2.74	3.70	4.56	7.26	5.61	4.32	-	-	-	-
Othello	-	-	-	5.37	7.05	7.91	12.51	10.39	8.80	3.66	-	-	-
Quincy (nr)	-	-	-	6.43	7.89	8.47	13.74	11.96	9.27	3.32	-	-	-
Seattle (Maple Leaf)	-	1.05	1.88	3.74	3.81	5.12	6.06	5.14	4.17	1.57	.71	.57	-
Walla Walla	-	-	-	-	-	6.03	9.60	7.81	5.11	1.98	-	-	-
Wind River	-	-	-	2.88	4.07	4.43	6.35	4.92	4.10	1.37	-	-	-
WEST VIRGINIA													
Clarksburg	-	-	-	3.32	4.62	6.06	5.71	4.59	2.46	1.91	-	-	-
Wardensville	-	-	-	-	4.53	6.40	6.41	6.35	4.65	3.14	-	-	-
WISCONSIN													
Marshfield	-	-	-	-	4.72	5.97	6.50	5.45	3.05	3.24	-	-	-
Trempealeau	-	-	-	-	5.51	7.55	7.16	5.69	4.88	3.27	-	-	-
HAWAII													
Pahala	3.86	5.09	4.19	6.36	4.99	5.54	6.84	6.49	5.92	5.76	5.52	4.78	65.34
Waianae	3.09	4.19	5.27	6.99	7.02	8.07	8.17	7.90	6.85	5.63	5.04	4.54	72.76
PUERTO RICO													
Mayaguez	-	3.79	4.79	4.44	4.26	4.06	4.34	4.70	4.42	4.48	3.98	-	-
San Juan	5.32	5.53	7.49	7.18	6.88	7.36	8.11	6.90	6.57	6.06	6.52	6.88	80.80
VIRGIN ISLANDS													
St. Croix	4.34	4.04	-	5.72	-	5.38	6.49	5.87	5.60	-	-	-	-

Table 15

TOTAL EVAPORATION AND WIND MOVEMENT

YEAR 1944

State and Station	January	February	March	April	May	June	July	August	September	October	November	December	Annual
ALABAMA													
Fairhope	1.57	2.18	3.03	4.08	5.59	7.34	5.90	5.23	4.34	3.90	2.37	1.65	47.18
ARIZONA													
Bartlett Dam	4.02	3.06	5.82	8.52	12.16	15.70	16.83	16.08	11.89	10.74	4.36	4.32	113.50
Mesa	3.09	2.68	5.56	7.29	9.70	11.54	11.44	10.32	8.75	6.76	2.94	2.59	82.66
Roosevelt	1.68	2.46	4.57	6.71	10.42	13.19	13.03	12.57	8.73	5.94	2.28	1.32	82.90
Safford	1.97	2.84	5.37	7.89	8.89	10.59	9.62	8.89	6.17	3.52	1.93	1.40	69.08
Sierra Ancha	2.13	2.26	4.01	6.27	8.13	9.20	9.68	9.18	6.81	6.43	2.17	2.31	68.58
Tucson-Univ. of Arizona	1.34	1.58	4.72	8.06	10.28	12.03	11.11	9.26	6.71	3.60	1.27	1.01	70.97
Yuma (Citrus)	3.78	3.61	7.68	9.32	12.51	13.40	15.42	14.26	11.45	7.42	3.32	3.87	106.04
ARKANSAS													
Bethesda	-	-	-	-	6.35	7.84	9.16	7.27	7.18	4.43	-	-	-
Hope	1.49	2.26	3.59	5.12	5.37	7.67	8.82	6.94	5.32	4.97	2.60	1.91	56.06
Nimrod Dam	1.53	1.82	3.62	4.98	5.71	7.46	9.02	6.72	5.37	4.66	2.40	-	-
Russellville	-	-	3.92	5.20	5.63	6.77	7.91	6.16	5.17	3.59	1.94	1.05	-
Stuttgart	1.02	1.31	3.32	3.97	4.87	7.58	8.18	6.44	4.69	3.36	2.06	1.36	48.16
CALIFORNIA													
Beaumont	4.75	2.19	6.61	5.95	8.71	8.68	12.97	14.02	10.39	7.91	3.31	4.99	90.48
Boca	-	-	-	-	7.47	7.09	9.83	9.82	7.20	4.05	-	-	-
Chula Vista	2.72	3.32	5.34	6.26	6.50	7.14	7.64	7.18	5.47	4.40	3.13	2.86	61.96
Davis	1.20	2.48	4.39	4.24	8.42	8.88	9.89	9.81	8.78	4.87	1.68	.63	65.27
Fall River Mills	-	1.34	3.58	3.62	7.35	5.79	10.39	9.78	6.51	3.49	.74	-	-
Friant	1.45	2.11	3.80	5.17	9.96	12.26	16.23	13.75	10.01	5.91	1.75	.81	83.21
Lodi	1.20	2.63	4.59	5.38	10.24	10.47	10.08	8.46	3.84	1.20	.67	.67	67.33
Mojave (Backus Ranch)	2.31	3.13	7.05	9.20	11.97	12.23	16.42	17.35	13.67	7.06	3.07	2.20	105.66
Newark	1.29	2.24	4.34	4.75	7.65	7.08	8.38	7.85	6.24	3.81	2.23	.80	56.66
Oakdale	-	-	-	-	8.52	10.43	13.08	11.94	9.00	-	-	-	-
Tahoe	-	-	-	-	3.09	2.81	4.42	4.82	3.33	1.44	-	-	-
Valley Springs (Camp Pardee)	1.10	1.27	3.15	2.81	7.24	7.60	11.30	10.43	7.80	3.80	.92	.56	57.98
COLORADO													
Conejos Dam	-	-	-	-	6.89	9.65	6.23	7.77	7.34	5.13	-	-	-
John Martin Dam	-	-	3.55	4.63	9.24	12.63	10.77	11.61	9.11	4.22	3.17	-	-
Montrose	1.07	1.42	2.64	3.74	6.84	8.92	9.43	8.66	7.39	3.93	1.71	1.50	57.25
Pueblo	2.65	3.02	5.21	4.99	9.39	11.67	11.26	10.80	8.30	5.03	2.91	2.61	77.84
Wagon Wheel Gap	-	-	-	-	-	9.33	7.41	6.47	6.03	3.14	-	-	-
FLORIDA													
Belle Glade	3.22	4.68	5.58	6.47	6.87	7.12	6.77	6.20	5.68	4.89	3.74	3.07	64.29
Hialeah	3.10	4.42	5.87	6.94	7.24	7.49	6.51	6.29	6.31	4.86	4.01	3.36	66.40
Lake Hiwassee	2.42	4.18	4.91	5.82	6.42	6.50	6.32	5.19	5.34	4.46	3.21	2.43	57.20
Loxahatchee	3.72	5.04	5.91	6.92	7.83	7.45	-	-	6.80	5.27	4.24	3.65	-
Moore Haven	2.91	4.08	5.17	5.79	6.00	5.55	5.40	4.31	5.18	4.50	3.61	3.11	55.61
Tamiami Trail	3.60	4.80	6.16	7.12	7.42	6.92	7.79	6.93	6.32	6.28	4.10	3.34	70.78
GEORGIA													
Experiment	2.31	3.07	4.50	5.69	8.01	8.82	7.33	5.78	4.99	4.84	2.85	1.85	60.04
Tifton	-	-	-	-	7.23	7.94	6.30	4.99	-	4.95	2.70	1.54	-
IDAHO													
Aberdeen	-	-	-	3.20	6.32	5.65	8.21	8.13	5.17	-	-	-	-
Arrowrock Dam	-	-	-	-	7.36	6.34	10.52	10.09	6.49	3.08	-	-	-
Lifton	-	-	-	-	6.31	6.36	9.49	9.50	5.43	2.87	-	-	-
Milner Dam	-	-	-	-	-	-	8.64	8.47	-	-	-	-	-
Moscow	-	-	-	-	-	-	8.34	6.02	3.78	-	-	-	-
ILLINOIS													
Springfield	-	-	2.88	-	6.13	8.14	9.51	7.22	4.93	3.13	2.07	-	-
INDIANA													
Indianapolis	-	-	-	3.36	4.97	7.17	7.64	6.36	3.86	2.14	-	-	-
IOWA													
Ames	-	-	-	2.89	5.84	7.85	8.37	6.44	4.30	3.24	-	-	-
Cherokee	-	-	-	2.55	5.76	7.54	8.46	6.19	3.69	3.06	.81	-	-
Clarinda	-	-	-	2.70	6.66	8.36	8.15	6.69	4.40	3.31	-	-	-
Iowa City	-	-	-	2.96	5.24	6.69	7.25	5.77	3.90	2.77	1.05	-	-
KANSAS													
Hays	-	-	-	4.75	8.70	12.85	12.06	10.85	8.40	5.23	-	-	-
Manhattan	-	-	-	-	8.89	10.15	10.06	9.44	6.44	4.24	-	-	-
Tribune	-	-	-	3.35	8.12	8.58	9.16	8.42	6.30	-	-	-	-
KENTUCKY													
Eadsville (Lock 21)	-	-	-	3.60	5.52	7.09	6.71	4.38	2.91	2.25	1.11	-	-
LOUISIANA													
Hackberry	2.12	3.95	4.90	-	-	-	8.88	-	-	4.92	-	-	-
MARYLAND													
Beltsville	-	-	-	4.38	6.54	7.34	8.63	6.46	4.09	3.03	1.70	-	-
MICHIGAN													
Germfask	-	-	-	-	4.94	5.74	6.36	6.20	2.74	1.89	-	-	-
MISSISSIPPI													
Vicksburg	1.14	1.76	3.77	4.82	5.72	7.67	7.99	6.73	5.24	4.50	2.50	1.28	53.12
MISSOURI													
Columbia U. of Mo.	-	-	-	-	-	8.20	9.87	6.74	5.30	4.02	-	-	-
Washington U.(St.Louis)	-	-	2.22	3.60	4.81	7.24	7.50	5.70	3.88	2.68	1.81	-	-
MONTANA													
Bozeman	-	-	-	3.63	5.47	4.50	7.08	6.45	3.57	2.45	-	-	-
Fort Peck	-	-	-	3.15	6.60	5.71	9.42	5.22	3.35	-	-	-	-
Malta	-	-	-	-	6.31	5.45	8.11	6.03	4.41	3.00	-	-	-
Sherburne Lake	-	-	-	-	5.25	4.25	7.96	6.12	4.01	3.82	-	-	-
Valier	-	-	-	-	6.54	4.66	8.31	7.53	5.87	-	-	-	-
NEBRASKA													
Bridgeport	-	-	-	3.81	6.76	7.42	7.77	8.21	5.74	3.21	-	-	-
Kingsley Dam	-	-	-	-	6.98	9.28	11.51	12.56	8.28	-	-	-	-
Lincoln	-	-	-	3.20	6.30	7.65	8.99	8.05	5.37	3.00	-	-	-
NEVADA													
Boulder City	3.24	3.21	7.94	9.78	13.94	16.68	18.63	17.64	12.90	8.60	4.47	3.58	120.61
Lahontan	-	-	-	6.86	-	10.58	14.76	12.94	7.62	2.98	-	-	-
Rye Patch Dam	-	-	-	4.79	9.94	8.88	14.62	13.43	9.92	4.73	-	-	-
NEW HAMPSHIRE													
Massabesic Lake	-	-	-	-	5.84	5.38	6.39	5.91	3.64	2.40	-	-	-
NEW JERSEY													
Canoe Brook	-	-	-	-	-	3.93	5.09	4.38	2.29	1.21	-	-	-
Pleasantville	-	-	-	3.43	5.75	6.74	7.46	6.39	4.38	2.92	-	-	-
Runyon	-	-	-	-	-	4.34	6.75	5.93	3.57	2.16	-	-	-

TOTAL EVAPORATION AND WIND MOVEMENT

YEAR 1944

State and Station	January	February	March	April	May	June	July	August	September	October	November	December	Annual
NEW MEXICO													
Agr. College	2.66	3.89	8.02	11.17	12.05	13.64	12.26	10.22	7.43	6.65	3.52	2.33	93.84
Alamogordo Dam	-	3.78	8.32	9.70	13.20	14.99	13.01	12.55	9.36	6.14	4.34	1.78	-
Caballo Dam	2.52	4.79	9.20	12.34	14.28	17.14	13.28	11.90	9.70	6.26	3.94	2.74	108.09
Conchas Dam	-	-	6.50	8.14	10.08	12.84	11.11	10.87	8.92	5.24	3.74	-	-
Eagle Nest	-	-	-	-	6.96	10.70	7.27	6.50	6.02	3.57	-	-	-
Elephant Butte	1.98	5.19	9.06	13.18	14.61	18.70	13.18	12.15	10.13	6.55	3.85	2.47	111.05
El Vado Dam	-	-	-	-	-	9.18	8.32	7.99	6.85	4.04	-	-	-
Farmington	-	1.51	3.92	5.62	6.80	7.19	6.58	6.28	4.46	3.18	1.45	.69	-
Florida	-	-	-	-	-	17.09	11.78	9.54	8.31	5.11	3.08	2.45	-
Jornada	1.80	3.43	7.78	11.23	12.77	15.10	13.86	10.72	8.15	6.21	3.18	1.84	96.07
Lake McMillan	2.55	4.11	8.53	12.71	15.17	16.78	14.05	11.52	7.11	-	-	2.09	-
Las Vegas	-	-	-	-	8.90	9.95	7.46	8.49	7.22	4.50	-	-	-
Portales	1.73	3.30	7.68	9.66	9.52	13.61	11.09	11.33	7.85	4.56	3.94	-	-
Roswell #2	-	2.61	5.04	7.06	9.12	10.66	9.25	8.56	5.19	5.50	4.45	3.86	-
NEW YORK													
Alcove Dam	-	-	-	-	5.37	4.73	6.56	5.06	3.14	1.62	-	-	-
Ithaca	-	-	-	-	5.52	4.80	6.47	6.24	3.40	2.25	-	-	-
New York Central Park	-	-	-	3.64	6.09	6.23	8.47	7.49	5.08	3.13	1.61	-	-
NORTH CAROLINA													
Chapel Hill	-	-	2.46	3.85	5.08	5.89	5.18	4.53	2.90	1.57	.89	-	-
OHIO													
Charles Mill Dam	-	-	-	2.65	5.25	6.80	7.42	6.86	3.75	2.65	-	-	-
Dayton	-	-	-	3.49	5.51	8.46	8.38	7.00	3.68	2.12	-	-	-
Ohio State University	-	-	-	3.47	4.90	4.95	6.50	5.52	3.42	1.96	-	-	-
Senecaville Dam	-	-	-	3.52	5.88	6.99	7.36	6.85	4.01	2.59	-	-	-
OKLAHOMA													
Fort Supply Dam	-	-	-	-	9.56	13.28	11.63	11.89	8.38	5.59	3.25	-	-
Grand River Dam	-	-	3.84	5.68	8.00	10.21	10.04	9.13	6.50	3.96	2.88	-	-
Norman	-	-	3.12	5.79	5.66	9.56	8.31	9.13	5.95	3.56	2.31	-	-
Tipton	-	-	4.50	7.95	9.64	12.57	10.04	12.93	8.36	5.35	-	-	-
OREGON													
Corvallis	-	-	-	2.49	4.39	4.72	6.88	6.30	4.20	-	-	-	-
Cottage Grove	-	-	-	2.55	5.14	5.28	8.77	7.45	5.55	2.10	-	-	-
Fern Ridge Dam	-	-	-	2.55	5.31	5.32	8.88	7.51	5.20	1.90	-	-	-
Medford	-	1.06	2.76	3.15	6.00	6.28	9.18	7.56	4.94	2.02	.66	.31	-
Warm Springs	-	-	-	4.57	8.35	6.87	10.81	10.02	6.04	-	-	-	-
Wickiup Dam	-	-	-	2.56	6.37	6.22	8.82	7.73	5.47	2.66	-	-	-
PENNSYLVANIA													
Pymatuning Dam	-	-	-	-	4.87	5.24	6.84	5.47	3.12	1.90	-	-	-
Shaver Creek	-	-	-	-	5.74	5.05	6.54	5.90	3.19	-	-	-	-
Wallenpaupack	-	-	-	-	5.05	5.04	7.24	7.58	3.18	2.28	-	-	-
TENNESSEE													
Neptune (Lock A)	-	-	3.25	4.34	6.11	7.76	7.68	5.69	4.72	2.99	1.82	-	-
TEXAS													
Austin	-	2.29	3.65	6.64	7.38	9.00	10.78	11.08	7.71	5.57	2.55	2.08	-
Balmorhea	2.32	3.42	6.66	9.30	10.21	11.13	11.20	8.79	4.76	4.48	3.06	2.04	77.37
Buchanan Dam #1	2.08	2.58	4.71	8.82	7.03	9.85	12.09	13.02	8.00	6.33	3.81	3.23	81.55
Dennison Dam	2.99	2.00	4.11	7.67	7.71	10.32	10.80	11.56	7.71	4.92	3.36	2.03	75.18
Dilley	3.54	2.52	5.79	8.79	8.67	9.91	13.26	11.45	7.97	7.08	4.42	2.08	85.48
Fort Stockton	-	-	-	-	13.59	15.39	15.07	13.71	8.20	6.46	4.68	2.55	-
Grand Falls	3.16	4.23	9.29	14.17	14.70	15.64	12.82	10.98	7.54	7.74	4.44	2.24	106.95
Red Bluff	2.59	3.87	9.56	13.45	15.22	15.92	14.43	12.21	-	5.67	3.88	2.07	-
Ysleta	2.63	3.31	8.40	12.32	12.68	13.44	12.21	9.97	6.98	6.61	3.34	2.16	94.05
UTAH													
Bear River	-	-	-	-	-	-	12.14	10.89	7.04	-	-	-	-
Fort Duchesne	-	-	-	3.79	7.62	7.31	8.54	7.75	5.57	2.49	-	-	-
Moon Lake	-	-	-	-	-	6.52	8.45	8.80	6.51	-	-	-	-
Plute Dam	-	-	-	-	-	10.00	-	10.92	7.99	-	-	-	-
Utah Lake	-	-	2.09	4.14	8.16	8.13	11.53	10.75	7.49	4.05	1.43	-	-
WASHINGTON													
Lake Kachess	-	-	-	2.45	4.30	5.05	6.86	5.56	3.64	-	-	-	-
Othello	-	-	-	5.72	9.19	10.06	13.75	11.08	7.57	3.74	-	-	-
Quincy (nr)	-	-	-	5.65	9.96	11.43	14.94	11.42	8.28	4.81	-	-	-
Seattle	.60	.93	1.95	3.04	4.96	4.72	6.01	4.30	3.51	1.78	.70	.60	33.10
Walla Walla	-	-	-	4.82	6.68	7.04	10.09	8.27	5.28	2.33	-	-	-
Wind River	-	-	-	2.20	4.07	4.43	6.66	5.15	3.26	1.34	-	-	-
WEST VIRGINIA													
Clarksburg	-	-	-	3.27	5.09	6.03	6.47	5.66	2.64	1.81	-	-	-
Wardensville	-	-	-	-	6.35	5.89	7.54	6.78	3.67	2.90	-	-	-
WISCONSIN													
Marshfield	-	-	-	-	4.34	6.46	6.24	7.02	2.90	2.40	-	-	-
Trempealeau	-	-	-	-	5.24	7.40	7.35	7.48	4.17	3.15	-	-	-
ALASKA													
College	-	-	-	-	-	-	-	2.07	.97	-	-	-	-
Matanuska	-	-	-	-	-	4.41	3.26	2.30	1.86	-	-	-	-
HAWAII													
Pahala	5.63	4.30	5.20	6.62	5.42	5.03	6.12	6.82	5.86	5.03	5.21	4.30	65.54
Waianae	4.47	3.85	4.28	6.79	7.19	6.75	7.68	8.42	7.27	5.66	5.12	4.36	71.84
PUERTO RICO													
San Juan	5.57	7.02	9.08	8.56	7.31	7.22	8.30	8.15	6.22	6.33	5.93	8.03	87.72

TOTAL EVAPORATION AND WIND MOVEMENT

Table 15

YEAR 1945

State and Station	January	February	March	April	May	June	July	August	September	October	November	December	Annual
ALABAMA													
Fairhope	2.05	2.19	3.96	5.26	6.48	6.62	5.28	5.93	4.93	3.42	2.53	1.36	50.02
ARIZONA													
Bartlett Dam	3.87	4.23	5.82	11.10	15.49	17.38	17.04	15.33	14.63	9.95	7.59	4.29	126.72
Mesa	2.27	3.44	4.89	8.30	11.02	11.90	12.59	10.70	9.72	6.23	3.75	2.47	87.29
Roosevelt	1.49	2.31	3.61	6.89	11.66	15.05	12.75	11.38	10.31	5.45	3.71	1.96	86.56
Safford	2.10	3.77	5.27	9.09	11.49	11.85	11.12	8.06	7.10	4.29	3.20	2.28	79.62
Sierra Ancha	2.45	2.42	3.65	6.85	9.61	11.42	10.45	9.20	8.92	5.36	4.44	2.27	77.04
Tucson-Univ. of Arizona	1.06	1.79	3.54	8.19	11.22	12.68	11.52	8.65	7.08	3.01	1.53	1.15	71.42
Yuma (Citrus)	3.10	5.03	6.65	10.25	13.96	14.28	15.72	13.17	11.70	8.67	5.42	3.53	111.48
ARKANSAS													
Bethesda	-	-	-	-	6.32	7.08	7.97	7.79	5.50	4.36	-	-	-
Hope	1.92	2.10	4.66	5.30	6.26	6.41	6.77	5.63	6.24	3.28	2.73	1.46	52.76
Nimrod Dam	-	-	-	5.17	5.93	6.46	6.98	6.00	4.92	3.41	3.08	-	-
Russellville	1.39	1.62	3.58	4.41	5.54	6.09	6.60	6.22	4.16	2.67	2.06	.80	45.14
Stuttgart	1.46	1.56	3.87	3.68	5.70	6.61	6.07	5.30	4.13	2.56	1.86	-	-
CALIFORNIA													
Beaumont	3.82	3.09	3.47	6.40	8.25	9.43	12.84	10.26	8.89	7.05	5.66	4.33	83.49
Boca	-	-	-	-	5.71	7.66	10.92	9.09	7.31	4.31	-	-	-
Chula Vista	2.26	3.24	4.47	5.71	7.20	6.70	7.17	6.78	6.36	4.88	3.62	2.68	61.06
Davis	.97	2.42	2.80	7.67	7.30	11.14	11.31	9.99	9.83	5.58	1.78	.72	71.50
Fall River Mills	-	1.97	2.02	4.85	5.53	7.53	11.36	9.88	7.07	4.15	.93	.58	-
Friant	.77	1.58	2.72	6.18	9.16	13.53	17.16	13.65	9.30	5.01	2.13	.82	82.01
Lodi	.70	2.06	2.74	7.04	8.05	10.76	11.33	9.74	8.25	3.94	1.25	1.27	67.13
Mojave (Backus Ranch)	2.99	4.02	4.74	10.46	12.36	15.31	19.06	14.48	11.54	6.52	4.37	2.76	108.61
Newark	.88	2.06	2.94	6.06	6.50	8.69	8.80	7.44	6.93	3.66	1.65	1.24	56.85
Oakdale	-	-	-	6.19	-	12.48	14.32	11.28	8.34	-	-	-	-
Tahoe	-	-	-	-	2.51	3.27	4.63	4.72	3.58	1.48	-	-	-
Valley Springs (Camp Pardee)	.68	1.12	1.55	4.39	5.86	9.48	11.40	10.56	7.97	3.52	.91	.45	57.89
Shasta Dam	-	-	-	-	-	13.47	16.90	14.17	12.68	7.31	1.48	1.50	-
COLORADO													
Conejos Dam	-	-	-	-	10.24	9.21	5.93	6.71	7.03	-	-	-	-
John Martin Dam	-	-	6.34	6.04	10.10	9.53	12.55	10.51	8.32	4.52	-	-	-
Montrose	1.04	1.33	3.17	3.57	7.32	8.37	9.62	7.23	6.37	3.12	1.81	1.64	54.58
Pueblo	2.90	2.34	6.32	5.56	8.78	10.38	10.36	9.22	7.98	5.19	4.28	-	-
Wagon Wheel Gap	-	-	-	-	-	8.70	6.63	5.62	5.74	-	-	-	-
FLORIDA													
Belle Glade	3.68	3.89	6.17	7.06	7.42	6.04	5.73	6.38	5.44	4.37	4.25	3.04	63.46
Hialeah	3.39	4.30	6.14	7.54	8.81	7.21	7.04	7.44	6.57	4.60	4.25	3.27	70.55
Lake Hiawassee	2.90	3.51	6.05	6.60	8.72	7.01	5.42	5.20	-	-	3.22	2.40	-
Loxahatchee	3.96	4.47	6.27	7.78	8.50	8.08	6.09	7.08	5.65	4.70	4.59	3.05	70.23
Moore Haven	3.13	3.31	5.46	6.64	7.28	5.13	4.38	4.59	3.76	3.86	3.83	2.58	53.95
Tamiami Trail 40 Mi Bend	3.62	4.88	6.46	6.81	7.80	7.41	6.73	-	-	-	-	-	-
GEORGIA													
Experiment	2.50	2.59	4.53	5.94	6.89	8.13	6.25	6.41	4.75	3.39	2.35	1.30	55.02
Tifton	2.57	2.75	5.31	5.29	7.21	7.29	6.19	5.48	4.00	3.61	2.70	1.53	53.94
IDAHO													
Aberdeen	-	-	-	-	6.45	6.14	8.89	6.83	4.63	3.74	-	-	-
Arrowrock Dam	-	-	-	-	5.62	7.10	11.05	9.85	6.13	-	-	-	-
Lifton	-	-	-	3.88	5.76	5.54	8.23	6.87	4.78	2.93	-	-	-
Milner Dam	-	-	-	-	-	-	8.18	-	-	-	-	-	-
Moscow	-	-	-	-	4.39	5.02	8.19	5.36	2.62	-	-	-	-
ILLINOIS													
Springfield	-	-	3.13	4.20	4.64	4.36	6.13	6.74	4.68	3.03	-	-	-
INDIANA													
Indianapolis	-	-	-	3.32	4.04	4.51	5.42	5.20	3.73	2.10	-	-	-
IOWA													
Ames	-	-	-	4.73	4.93	5.89	8.26	6.92	4.72	3.81	-	-	-
Cherokee	-	-	-	4.27	5.12	5.74	7.58	5.48	3.89	3.43	-	-	-
Clarinda (Soil Conservation Exp. Farm)	-	-	-	4.94	4.99	5.83	8.25	7.16	5.86	4.17	-	-	-
Iowa City	-	-	-	5.07	5.67	5.66	7.94	6.52	4.98	3.41	-	-	-
KANSAS													
Hays	-	-	-	6.81	8.56	7.20	13.06	12.53	10.65	6.02	-	-	-
Manhattan	-	-	-	5.85	6.77	7.02	9.03	8.68	7.53	4.07	-	-	-
Tribune	-	-	-	5.09	7.61	7.06	9.82	9.20	7.31	-	-	-	-
KENTUCKY													
Eadsville (Lock 21)	-	1.04	3.13	3.37	4.30	5.47	5.90	4.94	4.04	2.18	1.58	.56	-
LOUISIANA													
Hackberry (nr)	4.63	6.34	5.77	6.30	7.85	-	-	6.17	6.94	6.78	4.20	3.20	-
MARYLAND													
Beltsville	-	-	-	4.38	5.73	6.31	6.97	5.51	4.15	3.11	2.04	-	-
MICHIGAN													
Germfask	-	-	-	3.51	4.07	5.82	5.96	5.32	2.97	1.78	-	-	-
MISSISSIPPI													
Vicksburg	1.87	2.07	4.06	5.05	6.17	6.80	6.30	5.78	4.58	3.42	2.82	1.27	50.36
MISSOURI													
Columbia	-	-	-	4.83	5.32	4.48	6.80	7.07	5.51	3.32	-	-	-
Washington U.(St. Louis)	-	-	3.22	3.74	3.55	4.42	5.73	5.44	3.84	2.47	1.76	-	-
MONTANA													
Agr. College (Bozeman)	-	-	-	2.78	4.73	4.90	6.72	6.96	3.90	2.90	-	-	-
Fort Peck	-	-	-	-	-	5.10	9.56	8.50	4.57	-	-	-	-
Malta	-	-	-	-	5.82	5.23	9.20	7.78	3.97	2.64	-	-	-
Sherburne Lake	-	-	-	-	-	5.20	7.62	7.17	3.63	-	-	-	-
Valier	-	-	-	-	-	5.57	8.81	7.85	4.66	-	-	-	-
NEBRASKA													
Bridgeport	-	-	-	3.86	5.73	5.62	8.00	6.62	4.89	2.93	-	-	-
Kingsley Dam	-	-	-	-	-	7.02	-	9.14	7.92	5.50	-	-	-
Lincoln	-	-	-	4.00	4.39	5.67	7.26	7.50	6.61	3.28	-	-	-
Rosemont	-	-	-	-	-	7.95	10.89	10.87	10.49	6.06	-	-	-
NEVADA													
Boulder City	2.66	4.79	6.45	10.78	15.10	15.72	14.64	12.71	11.94	6.72	4.83	2.39	108.72
Lahontan	-	-	-	8.00	9.66	9.94	13.23	10.19	6.49	3.13	-	-	-
Lamoille	-	-	-	-	5.75	-	8.82	9.21	6.30	-	-	-	-
Rye Patch Dam	-	-	-	-	8.35	9.84	15.72	13.17	9.75	5.61	-	-	-
NEW HAMPSHIRE													
Massabesic Lake	-	-	-	-	3.72	4.82	5.88	5.16	3.52	2.21	-	-	-

Table 15--Continued

TOTAL EVAPORATION AND WIND MOVEMENT

YEAR 1945

State and Station	January	February	March	April	May	June	July	August	September	October	November	December	Annual
NEW JERSEY													
Canoe Brook	-	-	-	-	-	3.65	-	3.12	1.99	1.00	-	-	-
Pleasantville	-	-	3.07	4.23	5.85	6.02	4.91	5.51	3.87	2.50	2.97	-	-
Runyon	-	-	-	3.44	4.02	4.27	3.99	4.54	3.32	1.63	.78	-	-
NEW MEXICO													
Agr. College	3.00	5.26	7.83	10.96	13.12	14.38	13.58	11.58	9.51	5.63	6.09	3.06	104.01
Alamogordo Dam	2.53	4.80	9.20	9.19	16.28	17.12	13.73	11.94	11.84	6.36	5.98	3.67	112.64
Caballo Dam	2.73	5.55	8.53	12.07	16.65	17.42	13.62	12.86	12.50	6.70	6.20	3.62	118.46
Conchas Dam	-	-	7.96	7.53	12.62	13.76	12.10	11.14	10.67	6.15	5.34	-	-
Eagle Nest	-	-	-	-	8.08	7.62	8.85	6.56	6.66	3.68	-	-	-
Elephant Butte	2.45	5.91	8.68	12.32	17.07	18.06	14.44	13.22	13.17	8.24	6.48	3.37	123.41
El Vado Dam	-	-	-	-	8.67	9.96	8.56	7.39	7.59	3.78	-	-	-
Farmington	.24	1.89	3.10	5.69	8.02	8.11	7.22	6.26	5.76	3.17	2.47	-	-
Florida	-	4.28	-	-	13.87	15.48	11.42	9.55	9.90	5.82	5.02	3.14	-
Jornada	2.26	4.80	7.40	10.86	15.00	15.45	12.74	11.39	10.74	5.40	4.46	2.33	102.83
Lake McMillan	-	-	-	10.62	-	-	10.40	-	11.78	4.95	6.45	3.84	-
Portales	2.07	3.74	8.34	8.21	13.36	14.71	12.56	10.57	9.86	5.13	5.61	3.34	98.19
Roswell #2	2.97	3.75	6.26	7.28	10.72	-	8.00	7.99	5.98	3.63	4.28	2.48	-
NEW YORK													
Alcove Dam	-	-	-	-	4.00	4.06	4.86	4.88	3.08	1.82	-	-	-
Ithaca	-	-	-	-	3.34	4.15	5.40	4.98	4.38	2.26	-	-	-
New York Central Park	-	-	-	4.37	4.91	6.12	5.70	5.93	4.61	2.76	-	-	-
NORTH CAROLINA													
Chapel Hill	-	-	3.24	3.38	4.68	5.43	4.56	3.84	2.42	1.40	1.21	-	-
OHIO													
Charles Mill Dam	-	-	-	-	4.13	4.96	6.32	6.49	4.57	2.83	-	-	-
Dayton	-	-	-	3.87	5.34	5.97	7.17	6.19	4.74	2.61	-	-	-
Ohio State University	-	-	-	-	4.62	4.53	5.72	5.11	3.54	2.71	-	-	-
Senecaville Dam	-	-	-	4.21	5.42	5.75	6.54	6.48	5.09	3.14	-	-	-
Wooster	-	-	-	-	-	-	7.33	6.48	-	-	-	-	-
OKLAHOMA													
Fort Supply Dam	-	-	-	-	10.19	9.15	11.38	12.02	9.39	4.62	-	-	-
Grand River Dam	-	-	4.35	5.34	6.83	8.03	8.32	8.85	7.23	3.56	3.27	-	-
Lake Carl Blackwell	-	-	-	-	6.43	7.93	9.03	-	-	3.91	-	-	-
Norman	-	-	-	3.90	6.87	6.97	6.89	7.19	5.79	3.28	3.11	-	-
Tipton	-	-	-	5.29	10.54	10.35	10.02	10.24	10.59	4.29	4.63	-	-
OREGON													
Corvallis	-	-	-	2.36	3.75	5.11	6.80	5.72	-	-	-	-	-
Cottage Grove	-	-	-	-	4.13	6.88	9.46	7.64	4.70	-	-	-	-
Fern Ridge Dam	-	-	-	-	3.96	6.63	9.90	8.02	5.21	-	-	-	-
Medford	.59	1.26	1.75	4.00	4.69	7.08	9.17	7.22	5.06	2.29	.80	.90	44.81
Warm Springs	-	-	-	5.15	5.50	7.94	12.21	10.28	6.40	-	-	-	-
Wickiup Dam	-	-	-	3.60	4.55	8.40	10.68	8.21	6.13	3.04	-	-	-
Odell Lake	-	-	-	-	-	4.01	5.44	3.42	1.92	.62	-	-	-
PENNSYLVANIA													
Pymatuning Dam	-	-	-	3.36	3.54	3.84	5.97	4.83	3.13	2.16	-	-	-
Shaver Creek	-	-	-	-	5.31	4.44	4.52	5.27	4.61	2.63	-	-	-
Wallenpaupack	-	-	-	-	4.80	4.35	4.18	7.88	3.87	3.07	-	-	-
TENNESSEE													
Neptune (Lock A)	1.18	1.43	3.56	4.50	4.63	6.05	6.45	5.89	4.33	2.48	2.02	-	-
TEXAS													
Austin	2.55	3.27	4.94	5.16	8.64	9.98	9.64	9.36	8.45	4.72	4.19	-	-
Balmorhea	-	3.70	-	7.33	10.64	11.42	8.09	8.61	7.52	3.81	3.03	-	-
Buchanan Dam #1	2.93	3.44	5.68	6.05	10.03	10.44	9.61	9.96	9.98	4.69	3.06	-	-
Dennison Dam	1.52	2.77	6.12	6.06	9.16	10.14	7.97	7.67	8.66	4.09	5.54	2.96	72.65
Dilley	3.19	3.25	7.01	8.12	11.69	12.18	11.97	12.40	11.55	5.31	4.15	3.38	94.19
Fort Stockton	3.69	5.68	9.38	11.12	15.90	16.31	11.22	13.58	11.35	4.76	5.31	4.63	112.93
Grand Falls	3.32	5.63	8.95	11.00	14.02	12.45	10.89	12.20	10.10	5.52	5.17	3.25	102.48
Red Bluff	2.81	-	9.43	11.42	14.73	16.18	11.16	13.49	10.65	4.29	5.42	3.87	-
Ysleta	3.21	5.24	9.58	11.75	14.46	14.92	13.12	10.82	9.60	5.26	4.35	3.91	106.23
UTAH													
Bear River	-	-	-	-	7.56	7.22	11.03	9.26	6.14	-	-	-	-
Fort Duchesne	-	-	-	5.43	7.67	7.52	8.22	7.20	5.80	3.20	-	-	-
Moon Lake	-	-	-	-	-	7.42	7.53	5.99	6.13	-	-	-	-
Piute Dam	-	-	-	-	7.87	8.51	8.29	8.44	7.41	-	-	-	-
Utah Lake	-	-	2.33	4.81	7.57	8.08	9.93	8.83	6.94	4.04	1.28	-	-
WASHINGTON													
Lake Kachess	-	-	-	-	4.36	4.88	7.36	6.03	3.31	3.70	-	-	-
Othello	-	-	-	6.44	8.31	9.78	12.81	10.48	6.03	3.46	-	-	-
Quincy (nr)	-	-	-	6.58	7.46	11.39	14.12	11.88	-	3.69	-	-	-
Seattle	.52	.67	1.63	2.27	4.69	4.72	7.21	4.98	3.57	1.60	.59	-	-
Walla Walla	-	-	-	-	6.23	7.96	10.51	7.60	4.35	2.58	-	-	-
Wind River	-	-	-	2.63	3.41	5.12	7.26	5.84	3.07	-	-	-	-
WEST VIRGINIA													
Clarksburg	-	-	-	3.89	4.48	5.16	5.49	4.16	3.37	1.76	-	-	-
Wardensville	-	-	-	-	5.55	6.54	5.80	5.58	4.25	2.86	-	-	-
WISCONSIN													
Marshfield	-	-	-	-	5.01	4.80	5.86	5.52	3.19	2.10	-	-	-
Trempealeau	-	-	-	-	6.32	5.79	7.23	6.52	4.88	3.89	-	-	-
ALASKA													
College	-	-	-	-	-	-	3.14	2.04	-	-	-	-	-
Matanuska	-	-	-	-	-	-	4.22	2.41	1.56	-	-	-	-
HAWAII													
Pahala	4.17	4.16	6.26	4.15	4.48	-	-	-	-	-	-	-	-
Waianae	4.08	4.37	6.74	4.73	7.22	8.17	7.59	7.79	6.76	5.94	4.68	3.65	71.73
PUERTO RICO													
Mayaguez	-	-	-	-	-	-	-	-	-	4.16	-	-	-
San Juan	6.35	6.87	9.63	8.45	7.32	8.58	8.03	8.52	5.76	5.97	5.42	6.07	86.28

TOTAL EVAPORATION AND WIND MOVEMENT

Table 15

YEAR 1946

State and Station	January	February	March	April	May	June	July	August	September	October	November	December	Annual
ALABAMA													
Fairhope	1.90	2.71	4.03	5.24	5.64	5.79	5.64	5.64	3.88	3.85	2.05	2.06	48.43
ARIZONA													
Bartlett Dam	3.76	5.43	8.59	12.50	15.71	18.74	17.19	14.89	11.95	7.75	4.36	5.03	125.90
Mesa Exp. Farm	2.94	3.66	6.96	7.48	11.09	12.92	12.68	11.35	8.32	4.96	3.00	2.64	87.80
Roosevelt	-	-	5.62	8.85	12.80	15.24	13.34	10.97	8.79	4.84	2.65	1.71	-
Safford	2.03	4.19	6.74	8.62	11.42	13.37	-	9.22	6.66	4.69	2.94	2.62	-
Sierra Ancha	1.80	3.07	4.56	7.54	9.22	12.97	10.42	8.09	7.29	4.18	2.42	2.98	74.54
Tucson-Univ. of Arizona	1.27	2.24	5.20	8.30	11.29	13.90	10.75	7.51	4.63	2.71	1.36	1.34	70.50
Yuma (Citrus)	4.41	4.41	7.37	8.56	11.63	12.96	13.13	12.29	9.20	6.40	3.68	3.14	97.18
ARKANSAS													
Bethesda	-	-	-	6.63	5.83	7.31	8.54	7.68	4.81	4.36	-	-	-
Hope	1.72	3.00	4.56	5.63	5.27	6.54	7.44	6.80	4.72	4.24	2.08	2.11	54.11
Nimrod Dam	-	-	-	5.74	5.53	7.21	7.36	7.54	4.81	4.91	1.85	-	-
Russellville	-	2.22	3.39	4.82	5.08	6.84	7.45	6.78	4.55	3.82	1.74	1.40	-
Stuttgart	1.91	2.68	3.25	5.60	4.35	5.86	5.93	5.81	4.30	3.60	1.66	1.34	46.29
CALIFORNIA													
Beaumont	5.39	4.46	5.40	7.06	6.94	12.06	11.71	12.21	10.59	5.63	3.75	3.45	88.65
Boca	-	-	-	-	7.72	10.80	10.95	10.13	7.08	-	-	-	-
Camp Pardee	.58	.81	1.96	4.01	7.18	9.70	11.11	10.30	7.62	3.40	1.42	-	-
Chula Vista	3.04	3.11	4.94	5.59	7.32	7.36	7.76	7.91	6.29	4.85	3.06	-	-
Davis	1.58	1.59	3.61	5.62	7.93	10.35	11.47	10.50	8.72	5.89	3.26	.70	71.22
Fall River Mills	-	-	2.45	5.92	8.57	9.26	9.96	9.30	6.84	3.40	1.26	-	-
Friant	.87	1.82	4.01	6.53	9.49	12.88	14.40	13.25	9.46	4.62	2.06	.43	79.82
Lakeshore	-	-	-	-	-	-	10.18	10.05	6.80	3.18	1.76	1.05	-
Lodi	1.07	1.39	4.19	7.09	9.17	11.43	11.17	10.00	7.02	4.26	2.42	.64	69.85
Mojave (Backus Ranch)	3.83	3.73	6.53	10.49	12.40	17.69	16.57	17.14	12.45	7.27	3.41	2.08	113.59
Newark	1.64	1.46	3.37	5.16	6.75	8.51	8.63	7.76	7.19	5.33	2.52	1.01	59.33
Oakdale	1.81	2.06	3.58	5.69	9.25	12.96	13.43	13.41	8.90	4.67	2.25	1.73	79.74
Shasta Dam	3.23	2.07	3.02	7.90	10.12	11.48	14.62	15.16	10.28	6.36	3.13	2.02	89.39
Tahoe	-	-	-	-	3.44	4.25	4.44	4.88	3.08	-	-	-	-
COLORADO													
Conejos Dam	-	-	-	-	9.30	10.20	8.13	7.30	8.75	-	-	-	-
John Martin Dam	-	-	5.85	8.97	8.98	12.68	13.67	10.27	7.78	4.94	-	-	-
Montrose	1.36	2.01	3.82	6.29	6.64	10.32	8.96	6.90	6.17	3.21	1.12	1.14	57.94
Pueblo	4.09	4.15	7.16	9.06	7.85	12.44	11.78	9.78	7.52	5.38	1.69	2.88	83.78
San Luis Lakes	-	-	-	-	-	11.83	9.87	7.76	7.21	4.61	-	-	-
Wagon Wheel Gap	-	-	-	-	-	9.36	6.31	5.15	5.58	-	-	-	-
FLORIDA													
Belle Glade	3.20	4.56	5.61	7.70	6.34	5.77	6.74	6.35	5.31	5.33	3.40	3.38	63.69
Hialeah	3.69	4.71	5.91	7.87	6.58	6.98	5.88	6.78	5.10	5.69	3.67	3.66	66.52
Lake Hiawassee	2.70	3.55	4.79	6.27	7.06	6.18	6.44	5.87	4.27	4.70	2.90	2.79	-
Loxahatchee	3.47	4.69	6.00	8.19	6.87	7.01	6.16	6.60	5.72	5.30	3.77	3.72	67.50
Tamiami Trail	3.40	3.99	5.74	7.37	6.37	5.92	5.60	5.42	4.37	5.16	4.04	3.17	60.55
GEORGIA													
Athens	-	-	-	-	-	-	-	-	5.30	4.70	2.74	2.44	-
Experiment	1.84	2.81	4.64	5.37	5.58	6.45	5.41	5.84	3.95	3.49	2.04	2.10	49.52
Haggards Mill	1.89	2.94	4.99	6.30	6.42	7.23	6.39	5.89	4.32	4.25	2.18	2.19	54.99
Rome	-	-	-	-	-	-	-	-	4.86	4.53	2.84	1.75	-
Tifton	-	3.23	4.87	6.06	6.18	6.73	6.71	5.57	3.49	3.50	1.83	2.12	-
IDAHO													
Aberdeen	-	-	-	-	6.80	8.29	8.50	7.82	4.89	-	-	-	-
Arrowrock Dam	-	-	-	-	6.24	8.28	11.05	9.68	5.63	-	-	-	-
Idfton	-	-	-	4.46	5.42	8.43	8.68	7.84	5.07	2.29	-	-	-
Moscow	-	-	-	2.63	3.38	5.35	7.31	5.64	2.89	-	-	-	-
ILLINOIS													
Springfield	-	-	-	5.80	4.55	8.79	8.69	5.32	5.46	4.13	1.89	-	-
INDIANA													
Evansville Airport	Opened April 30, 1946.				4.34	8.56	8.08	6.11	4.43	3.54	1.84	-	-
Indianapolis	-	-	-	4.08	3.25	4.93	5.95	4.85	3.81	2.97	-	-	-
IOWA													
Ames	-	-	-	6.08	4.85	7.43	7.00	5.71	4.65	3.53	-	-	-
Cherokee	-	-	-	5.26	5.04	6.96	6.73	6.12	3.97	2.61	-	-	-
Clarinda	-	-	-	-	5.41	9.54	7.96	7.13	5.24	4.71	-	-	-
Iowa City	-	-	-	6.37	4.96	7.41	8.17	5.67	5.43	3.40	-	-	-
KANSAS													
Hays	-	-	-	9.92	8.53	16.02	16.21	12.41	9.87	5.27	-	-	-
Manhattan	-	-	-	6.40	6.22	11.69	11.40	8.24	7.42	4.38	-	-	-
Tribune	-	-	-	7.94	7.79	11.54	11.32	10.22	6.82	-	-	-	-
KENTUCKY													
Eadsville (Lock 21)	1.03	1.57	3.12	4.07	4.25	5.42	5.36	3.91	3.38	2.77	1.83	-	-
LOUISIANA													
Hackberry (nr)	6.61	3.63	-	7.05	-	7.70	8.02	8.26	6.70	5.86	4.40	3.40	-
MARYLAND													
Beltsville	-	-	-	5.81	5.27	6.33	7.52	5.60	5.67	3.18	-	-	-
MICHIGAN													
Germfask	-	-	-	-	4.50	6.11	6.80	4.68	3.01	2.10	-	-	-
MISSISSIPPI													
Vicksburg	1.85	2.62	4.08	5.16	5.31	6.40	-	-	-	-	-	-	-
MISSOURI													
Columbia (nr)	-	-	-	4.47	4.65	7.46	9.46	5.78	5.28	4.38	-	-	-
Lakeside	-	-	-	5.65	4.61	8.18	8.70	6.53	5.39	4.58	1.74	1.66	-
Washington University	-	-	3.11	4.46	3.53	6.44	7.11	3.90	3.90	3.12	1.46	1.15	-
MONTANA													
Bozeman	-	-	-	5.14	4.22	6.12	7.30	7.42	3.70	-	-	-	-
Fort Peck	-	-	-	-	-	-	-	8.73	5.03	-	-	-	-
Malta	-	-	-	-	6.30	6.75	8.43	7.37	3.94	1.31	-	-	-
Sherburne Lake	-	-	-	-	-	5.60	7.32	6.13	3.85	-	-	-	-
Valier	-	-	-	-	-	6.33	7.75	7.02	5.02	-	-	-	-
NEBRASKA													
Bridgeport	-	-	-	5.94	4.67	7.39	9.04	7.30	5.25	2.58	-	-	-
Kingsley Dam	-	-	-	8.73	7.13	11.07	12.52	9.39	7.15	3.67	-	-	-
Lincoln	-	-	-	6.16	5.36	-	9.70	6.28	4.55	2.64	-	-	-
Rosemont (nr)	-	-	-	9.66	7.82	14.65	12.56	9.58	6.30	4.89	2.07	-	-
NEVADA													
Boulder City	4.28	4.61	8.15	11.06	14.66	17.96	14.65	13.76	10.98	6.25	3.31	3.11	112.78
Lamoille	-	-	-	-	-	-	9.01	8.90	-	-	-	-	-
Rye Patch Dam	-	-	-	-	9.57	12.69	15.53	13.48	8.98	3.86	-	-	-

Table 15-Continued

TOTAL EVAPORATION AND WIND MOVEMENT

YEAR 1946

State and Station	January	February	March	April	May	June	July	August	September	October	November	December	Annual
NEW HAMPSHIRE													
Massabesic Lake	-	-	-	-	4.11	5.89	6.86	4.15	3.41	2.23	-	-	-
NEW JERSEY													
Canoe Brook	-	-	-	-	-	3.98	4.04	4.01	3.36	1.84	-	-	-
Pleasantville	-	-	2.77	4.31	4.83	5.49	6.39	4.32	2.91	2.34	1.62	-	-
Runyon	-	-	-	-	-	5.08	5.60	4.10	5.37	4.17	-	-	-
NEW MEXICO													
Agr. College	2.58	5.04	8.60	10.70	13.93	13.99	12.72	10.24	7.52	6.47	3.85	2.70	98.34
Alamogordo Dam	3.29	5.36	9.36	12.18	13.72	15.97	15.20	11.45	8.52	7.32	3.71	3.72	109.80
Caballo Dam	3.72	5.23	9.43	11.87	16.44	16.52	14.05	11.62	9.44	7.74	4.71	3.71	114.48
Conchas Dam	-	-	7.73	10.92	11.91	15.06	14.26	10.62	9.26	6.76	3.29	-	-
Eagle Nest	-	-	-	-	6.31	6.84	7.16	6.10	5.36	4.89	-	-	-
Elephant Butte	2.99	5.48	9.14	11.73	16.83	17.27	14.56	12.19	9.40	8.71	4.73	4.07	117.10
El Vado Dam	-	-	-	-	8.31	11.62	9.74	7.17	6.28	4.24	-	-	-
Florida	3.02	4.19	6.74	8.75	14.34	14.39	11.30	9.20	7.78	6.08	4.26	3.67	-
Jornada	2.35	4.05	7.63	10.18	13.61	14.17	12.39	10.12	7.04	5.57	3.03	2.46	-
Lake McMillan	3.77	5.18	11.05	11.43	14.21	15.23	14.60	13.92	8.62	6.50	4.64	3.63	-
Maxwell	-	-	-	-	-	11.94	10.97	8.14	5.93	-	-	-	-
Portales	2.21	4.94	8.65	11.28	11.91	13.83	10.86	7.30	6.17	3.88	3.20	-	-
Roswell #2	-	5.56	6.79	8.70	10.60	10.56	9.10	9.75	7.59	-	-	-	-
NEW YORK													
Alcove Dam	-	-	-	-	4.49	5.12	5.91	4.10	3.75	1.80	-	-	-
Ithaca #2	-	-	-	-	3.70	4.58	6.34	4.08	4.23	2.11	-	-	-
New York Central Park	-	-	-	3.97	4.91	6.07	6.49	5.04	4.48	3.28	2.12	-	-
NORTH CAROLINA													
Chapel Hill	-	-	2.68	3.43	4.02	5.26	-	4.74	3.80	2.80	1.64	-	-
Hoffmann Forest (Maysville)	2.41	-	4.06	5.62	6.00	7.18	7.34	5.02	4.63	3.32	2.34	2.05	-
OHIO													
Charles Mill Dam	-	-	-	4.10	4.06	6.16	7.05	5.31	-	3.21	-	-	-
Dayton	-	-	-	4.50	4.02	7.09	7.05	5.41	4.08	2.38	-	-	-
Ohio State University	-	-	-	3.41	3.26	-	5.85	4.67	4.06	3.02	-	-	-
Senecaville	-	-	-	4.20	3.91	6.05	6.32	4.92	4.56	2.83	-	-	-
Wooster	-	-	-	-	-	-	8.45	7.04	-	-	-	-	-
OKLAHOMA													
Fort Gibson	-	-	-	-	-	-	-	-	-	5.38	2.49	-	-
Fort Supply Dam	-	-	-	10.01	9.74	13.27	14.23	10.44	7.22	5.47	4.24	2.50	-
Grand River Dam	1.65	3.39	4.86	6.16	6.57	7.76	10.21	9.21	5.95	5.87	2.21	2.50	-
Great Salt Plains #1	-	-	-	8.74	8.52	12.25	15.70	11.35	-	6.00	3.52	-	-
Hulah Dam	-	-	-	-	-	-	-	-	-	6.13	1.93	-	-
Lake Carl Blackwell	-	-	-	6.48	7.10	-	-	-	6.15	4.61	-	-	-
Norman	-	-	4.83	5.64	5.98	7.09	8.62	6.04	5.89	4.67	2.60	2.71	-
Tipton	-	-	6.39	9.05	10.36	10.80	13.87	13.24	6.52	4.76	2.69	2.08	-
OREGON													
Corvallis	-	-	-	2.94	5.00	4.37	6.36	6.06	3.14	-	-	-	-
Cottage Grove Dam	-	-	-	-	5.55	5.45	8.01	7.46	4.49	1.63	-	-	-
Fern Ridge Dam	-	-	-	-	6.19	5.91	8.86	8.24	4.76	-	-	-	-
Medford	-	1.16	1.86	4.22	6.37	6.60	8.31	7.39	4.56	1.60	.79	.35	-
Odell Lake (1)	-	-	-	-	-	2.87	4.53	3.02	1.42	.47	-	-	-
Warm Spring Res.	-	-	-	5.16	7.35	8.39	10.62	9.89	5.69	-	-	-	-
Wickiup Dam	-	-	-	-	6.90	6.45	9.63	8.00	4.74	2.00	-	-	-
PENNSYLVANIA													
Confluence 18W	-	-	-	-	-	-	-	-	-	2.15	-	-	-
Ford City 4S	-	-	-	-	-	-	-	-	-	2.81	-	-	-
Hawley (Wallenpaupack Dam)	-	-	-	-	4.92	6.14	6.28	4.14	4.92	2.33	-	-	-
Jamestown 2NW (Pymatuning)	-	-	-	-	3.74	4.31	6.14	4.29	3.97	2.36	-	-	-
Shaver Creek	-	-	-	-	4.05	4.48	6.03	3.84	3.64	-	-	-	-
SOUTH CAROLINA													
Clemson	-	-	-	-	-	-	-	-	-	-	-	1.96	-
TENNESSEE													
Center Hill Dam	-	-	-	-	-	-	-	-	-	-	2.11	1.40	-
Neptune	-	2.51	3.46	5.28	4.35	6.23	6.45	5.15	4.30	3.14	2.48	1.40	-
TEXAS													
Austin	2.86	3.71	5.66	6.91	7.16	8.53	11.06	9.63	5.43	4.87	3.16	2.44	-
Balmorhea	2.70	3.77	7.23	8.15	9.10	9.71	11.01	9.41	5.46	4.34	-	2.38	-
Buchanan Dam	3.16	3.87	7.07	7.22	6.99	9.10	13.24	12.13	6.04	4.87	3.61	4.02	-
Del Rio	2.76	6.02	-	9.94	7.53	9.76	12.55	14.07	8.52	5.45	4.39	3.56	-
Dennison Dam Site	2.16	4.22	6.63	8.44	7.91	9.04	11.61	12.05	5.91	5.14	3.12	3.70	-
Dilley	3.20	4.05	8.16	9.14	6.60	10.11	13.16	12.49	5.74	4.05	3.24	2.62	-
Fort Stockton	3.15	5.41	-	10.79	12.33	13.22	-	-	-	-	-	-	-
Grandfalls	3.24	5.16	8.94	10.60	12.19	14.46	15.36	13.95	10.12	6.54	4.47	3.62	-
Laredo	-	7.95	11.42	12.17	10.77	12.99	16.22	14.36	8.62	7.32	5.36	4.12	-
Red Bluff Dam	2.67	5.00	9.06	11.07	13.35	13.72	14.05	13.77	8.65	6.23	5.01	3.04	-
Ysleta	2.63	5.10	9.22	10.48	13.50	14.08	12.61	10.97	8.31	6.20	3.98	2.94	-
UTAH													
Bear River	-	-	-	-	-	9.97	11.22	8.67	5.51	-	-	-	-
Fort Duchesne	-	-	-	-	7.65	9.81	9.06	7.39	6.16	2.72	-	-	-
Moon Lake	-	-	-	-	-	-	8.08	7.47	5.84	-	-	-	-
Piute Dam	-	-	-	-	7.75	12.32	9.60	8.16	7.57	-	-	-	-
Utah Lake	-	-	3.68	6.38	8.18	12.88	12.46	9.67	7.82	2.90	1.27	.75	-
WASHINGTON													
Lake Kachess	-	-	-	-	4.62	3.60	6.28	5.98	2.83	-	-	-	-
Othello (nr)	-	-	-	5.26	9.02	8.91	12.59	11.23	6.34	3.01	-	-	-
Quincy (nr)	-	-	-	6.31	10.58	9.55	13.48	12.57	6.57	3.64	-	-	-
Seattle	.52	.84	1.22	2.50	4.60	5.09	6.28	5.75	2.94	1.36	.45	.73	-
Walla Walla	-	-	-	4.84	7.17	6.88	9.45	7.68	4.16	2.07	-	-	-
Wind River	-	-	-	-	4.95	4.40	5.87	5.75	2.96	-	-	-	-
WEST VIRGINIA													
Clarksburg	-	-	-	3.67	3.40	5.32	5.61	3.99	3.21	1.70	-	-	-
Wardensville	-	-	-	4.66	4.68	5.58	5.85	4.89	4.35	3.04	-	-	-
WISCONSIN													
Marshfield	-	-	-	-	5.45	4.84	5.41	6.60	4.96	2.72	-	-	-
Rainbow Reservoir	-	-	-	-	-	-	-	-	-	2.84	-	-	-
Trempealeau	-	-	-	-	5.99	6.39	7.91	6.63	4.24	3.34	-	-	-
ALASKA													
College	-	-	-	-	-	-	5.08	3.65	-	-	-	-	-
Matanuska #14	-	-	-	-	-	-	3.52	2.73	-	-	-	-	-
HAWAII													
Waianae	4.09	3.70	6.49	6.47	7.31	7.72	8.84	7.69	7.34	6.55	4.45	3.70	74.35

TOTAL EVAPORATION AND WIND MOVEMENT

YEAR 1946

State and Station	January	February	March	April	May	June	July	August	September	October	November	December	Annual
PUERTO RICO													
Mayaguez	3.45	3.85	5.03	4.74	-	3.99	4.74	4.23	3.53	3.23	2.85	-	-
San Juan	6.53	6.92	8.62	8.74	8.83	7.96	8.76	8.42	5.84	5.71	4.95	6.07	-
VIRGIN ISLANDS													
St. Croix	4.34	4.04	-	5.72	-	5.38	6.49	5.87	5.60	-	-	-	-

Table 15

TOTAL EVAPORATION AND WIND MOVEMENT

YEAR 1947

State and Station	January	February	March	April	May	June	July	August	September	October	November	December	Annual
ALABAMA													
Auburn	-	-	-	-	7.00	7.17	8.04	6.86	6.39	4.27	-	-	-
Fairhope	2.18	2.82	3.56	4.53	5.70	6.46	6.70	5.93	4.92	3.54	2.76	1.40	50.50
ARIZONA													
Bartlett Dam	4.18	6.12	9.02	11.86	15.87	17.91	19.02	13.04	13.51	9.83	5.34	3.49	129.19
Mesa Exp. Farm	3.47	4.00	6.12	7.96	9.88	11.83	13.40	11.15	8.89	6.43	3.40	2.21	88.74
Rosevelt	1.74	3.11	5.53	9.36	12.49	14.98	14.46	10.50	9.77	5.94	2.63	1.57	92.08
Sacaton	-	-	-	-	-	14.56	16.15	12.25	11.27	7.53	3.87	3.04	-
Safford	2.41	4.30	-	-	-	-	-	-	-	-	-	-	-
Sierra Ancha	1.56	3.58	4.71	6.76	8.63	10.66	11.22	7.78	8.32	5.71	2.48	1.94	73.35
Tucson-Univ. of Arizona	1.72	2.44	4.13	7.43	10.65	12.80	11.30	7.87	6.24	2.97	1.55	1.36	70.46
Yuma (Citrus)	3.58	4.38	6.76	8.67	11.10	11.66	12.70	12.64	11.21	8.19	4.97	3.34	99.20
ARKANSAS													
Bethesda	-	-	-	-	7.17	6.54	9.40	9.44	7.99	4.71	2.43	-	-
Hope	1.84	2.37	3.58	4.61	6.19	6.86	8.16	8.35	5.24	4.23	2.20	1.92	55.55
Nimrod Dam	-	-	-	4.58	6.36	7.19	9.01	9.88	7.05	4.51	-	-	-
Norfolk Dam	-	-	3.31	5.23	6.94	7.27	8.53	9.69	7.69	4.64	1.91	-	-
Russellville	-	-	3.01	3.88	5.84	6.48	7.20	-	-	-	-	-	-
Stuttgart	-	-	2.62	3.76	5.53	6.00	6.99	7.37	5.75	3.19	1.34	1.61	-
CALIFORNIA													
Backus Ranch	3.23	3.61	7.05	10.56	14.45	15.32	18.45	15.16	13.08	7.29	3.85	2.45	114.50
Beaumont	4.66	3.83	5.07	7.01	8.47	10.30	15.06	11.10	10.28	6.69	4.87	4.19	91.53
Boca	-	-	-	4.92	8.36	8.44	11.35	9.54	7.72	3.54	-	-	-
Camp Pardee	.37	.75	1.79	4.71	8.71	9.84	11.81	10.37	8.45	2.76	1.07	.58	61.21
Chula Vista	2.72	3.02	5.15	7.10	6.98	7.60	8.24	8.24	6.06	4.89	3.49	3.01	66.50
Davis	1.35	1.33	3.50	6.91	9.87	11.27	11.89	10.13	9.30	4.12	2.97	1.45	74.09
Fall River Mills	-	-	-	4.18	7.46	4.52	12.40	11.55	8.64	3.81	-	-	-
Friant	.77	1.58	3.87	6.93	11.79	13.76	15.45	13.13	10.69	5.37	2.26	1.46	87.06
Lakeshore	1.25	1.48	3.29	5.23	7.59	7.12	8.71	7.89	7.14	2.79	1.25	.65	54.39
Lodi	.99	1.26	3.61	7.20	10.33	11.18	12.61	10.23	8.55	3.65	2.17	1.10	72.88
Newark	.99	1.42	3.14	5.45	8.07	8.58	8.99	8.04	7.08	4.46	2.50	1.51	60.23
Oakdale	.76	1.26	3.42	5.59	10.68	12.90	13.53	11.94	-	-	1.67	1.04	-
Shasta Dam	2.02	2.62	4.27	7.36	9.62	8.61	10.22	9.46	9.76	3.88	2.67	1.23	71.72
Tahoe	-	-	-	-	3.55	3.36	4.60	4.70	3.39	-	-	-	-
Turntable Creek	-	-	-	-	-	9.18	9.95	8.50	9.10	4.26	3.11	1.57	-
COLORADO													
Conejos Dam	-	-	-	-	8.16	9.21	6.92	7.08	6.51	5.52	-	-	-
Grand Junction	-	-	-	-	-	-	-	-	11.08	5.82	-	-	-
John Martin Dam	-	-	-	6.20	7.67	9.89	11.98	13.70	10.95	6.55	1.78	1.15	-
Montrose	1.74	1.78	3.22	5.34	7.25	7.60	9.00	6.04	5.94	3.56	1.39	1.29	54.15
Pueblo	-	2.44	4.65	6.80	8.13	9.22	10.68	10.00	8.80	5.84	2.30	2.88	-
San Luis Lakes	-	-	-	5.01	8.11	11.04	9.63	7.85	6.06	4.58	-	-	-
Sugar Loaf Reservoir	-	-	-	-	3.99	6.48	5.53	4.69	4.15	2.45	-	-	-
Vallecito Dam	-	-	-	-	-	-	-	-	4.79	-	-	-	-
Wagon Wheel Gap	-	-	-	-	-	8.36	7.08	5.12	4.76	-	-	-	-
FLORIDA													
Belle Glade	3.35	3.60	5.83	6.27	6.77	5.37	5.11	5.95	5.17	3.76	3.42	2.99	57.59
Hialeah	3.44	4.09	5.24	6.69	7.27	5.63	5.97	6.58	-	-	3.97	3.52	-
Loxahatchee	3.63	3.83	5.49	6.55	7.22	5.81	4.93	5.97	5.68	5.27	3.49	3.12	60.99
Tamiami Trail	3.57	3.75	5.03	6.71	5.94	5.83	4.75	5.50	5.24	5.01	3.49	2.75	57.57
GEORGIA													
Alley	-	-	-	-	-	-	5.98	5.86	5.70	3.87	-	-	-
Athens	1.80	3.42	4.44	5.61	8.23	8.38	8.41	6.84	6.01	3.59	2.29	1.61	60.63
Experiment	1.54	2.92	4.20	5.08	6.84	7.40	7.52	6.12	5.48	3.11	1.68	1.39	53.28
Haggards Mill	1.84	2.93	3.88	5.53	6.94	6.81	7.15	6.48	5.77	3.70	1.99	1.50	54.52
Rome	1.70	2.43	3.84	5.08	7.38	7.03	8.51	7.23	7.01	4.46	2.04	1.39	58.10
Tifton	1.79	2.77	4.20	5.17	6.27	6.63	6.65	5.67	5.31	3.56	1.99	1.63	51.64
IDAHO													
Aberdeen	-	-	-	-	7.71	5.89	8.36	7.92	5.13	3.25	-	-	-
Arrowrock Dam	-	-	-	-	7.43	7.34	11.35	9.94	5.74	-	-	-	-
Lifton	-	-	-	3.98	6.75	5.63	8.15	6.26	6.34	3.39	-	-	-
Minidoka Dam (Rupert)	-	-	-	-	9.63	8.47	13.12	12.22	8.20	-	-	-	-
Moscow	-	-	-	-	5.71	5.09	8.40	6.31	3.06	-	-	-	-
Palisades Dam	-	-	-	-	-	-	9.35	6.90	5.05	-	-	-	-
ILLINOIS													
Carbondale	-	-	-	5.09	6.85	6.36	7.52	8.55	5.96	-	-	-	-
Springfield	-	-	-	4.15	6.39	7.03	9.07	9.97	6.95	4.22	-	-	-
Urbana	-	-	-	-	-	-	7.50	8.09	4.94	3.42	-	-	-
INDIANA													
Evansville	-	-	-	4.48	6.20	6.78	7.69	7.73	6.44	4.46	1.16	-	-
Indianapolis	-	-	-	3.33	4.39	4.51	5.55	5.09	3.76	2.37	-	-	-
Kendallville	-	-	-	3.27	4.06	5.39	5.75	6.96	4.31	2.93	-	-	-
Valparaiso	-	-	-	4.42	4.26	5.13	5.76	6.19	4.06	2.76	1.30	-	-
IOWA													
Ames	-	-	-	3.80	5.97	5.81	9.20	9.97	7.05	4.26	-	-	-
Cherokee	-	-	-	3.12	5.68	5.64	7.86	8.74	5.75	3.54	-	-	-
Iowa City	-	-	-	4.09	5.44	5.71	8.43	8.13	6.41	3.31	-	-	-
Norwich SCS Farm (Clarinda)	-	-	-	-	6.00	8.41	10.47	10.48	7.72	4.58	2.78	-	-
KANSAS													
Fall River Dam	-	-	-	5.80	5.46	8.28	10.88	12.98	11.32	-	-	-	-
Hays	-	-	-	4.75	7.89	9.24	13.84	17.42	15.80	10.16	-	-	-
Manhattan	-	-	-	4.62	6.37	7.11	9.68	12.16	9.93	-	-	-	-
Tribune	-	-	-	5.14	6.97	7.28	10.54	12.72	9.33	-	-	-	-
KENTUCKY													
Dix Dam	-	-	-	-	-	-	-	5.32	4.63	2.51	1.31	-	-
Wolf Creek Dam	-	-	-	-	-	-	-	-	4.70	2.60	1.58	-	-
LOUISIANA													
Hackberry (nr)	-	3.39	5.19	5.15	7.83	8.90	9.15	7.50	7.26	6.48	2.67	-	-
MARYLAND													
Beltsville	-	-	-	-	6.47	6.09	6.40	6.04	4.06	3.43	-	-	-
MICHIGAN													
Germfask	-	-	-	-	3.35	6.26	6.57	5.58	3.13	1.97	-	-	-
MISSOURI													
Columbia (nr)	-	-	-	4.48	6.10	6.24	7.55	8.44	6.86	3.58	-	-	-
Lakeside	-	-	-	4.37	6.46	6.17	7.95	8.52	6.91	4.31	1.76	1.45	-
Washington University	-	-	-	3.52	5.20	5.26	6.49	7.22	4.70	2.52	.77	-	-
MONTANA													
Bozeman	-	-	-	-	-	2.87	5.38	4.52	3.38	1.60	-	-	-
Fort Peck	-	-	-	-	7.65	5.63	11.17	8.09	5.50	-	-	-	-
Hungry Horse	-	-	-	-	-	-	-	-	-	-	-	-	-
Malta	-	-	-	4.57	6.03	4.93	8.20	5.98	3.16	2.33	-	-	-
Sherburne Lake	-	-	-	-	-	5.57	8.51	6.12	4.78	-	-	-	-
Valier	-	-	-	-	-	-	8.41	6.85	-	-	-	-	-

Table 15-Continued

TOTAL EVAPORATION AND WIND MOVEMENT

YEAR 1947

State and Station	January	February	March	April	May	June	July	August	September	October	November	December	Annual
NEBRASKA													
Bridgeport	-	-	-	5.29	6.69	6.65	8.63	8.87	6.39	3.86	-	-	-
Kingsley Dam	-	-	-	5.18	6.83	7.57	10.17	11.74	7.79	5.31	-	-	-
Lincoln	-	-	-	3.17	5.55	6.20	8.55	10.32	9.21	5.40	-	-	-
Rosemont (nr)	-	-	-	5.57	7.90	8.10	9.98	15.03	12.84	8.19	-	-	-
NEVADA													
Boulder City	3.36	4.41	7.83	10.77	13.88	16.37	16.87	14.42	13.46	7.53	4.66	2.74	116.30
Lamoille	-	-	-	-	-	6.65	11.12	9.81	-	-	-	-	-
Rye Patch Dam	-	-	-	-	11.00	11.62	16.22	13.96	10.69	-	-	-	-
NEW HAMPSHIRE													
Massabesic Lake	-	-	-	-	4.34	5.57	6.02	5.02	3.81	3.19	-	-	-
NEW JERSEY													
Canoe Brook	-	-	-	-	-	4.12	4.18	4.05	2.76	2.59	-	-	-
Pleasantville	-	-	-	-	4.74	5.57	6.43	5.48	3.44	2.48	-	-	-
Runyon	-	-	-	-	-	5.23	4.62	5.14	4.25	2.97	-	-	-
NEW MEXICO													
Agr. College	2.86	4.61	7.41	10.11	12.42	13.13	13.48	10.34	9.58	7.62	3.84	2.54	97.94
Alamogordo Dam	4.70	5.59	7.94	10.53	11.42	15.06	15.07	12.10	12.48	7.92	4.50	2.80	110.11
Caballo Dam	3.55	5.49	8.37	12.94	14.49	17.46	15.85	10.73	11.20	9.19	4.76	2.56	116.59
Conchas Dam	-	-	-	9.14	10.09	14.38	13.92	11.52	11.59	7.39	3.06	-	-
Eagle Nest	-	-	-	-	5.50	8.41	-	7.86	-	-	-	-	-
Elephant Butte	3.43	5.59	8.82	13.22	15.14	17.38	16.37	12.18	12.23	9.46	5.42	3.05	122.29
El Vado Dam	-	-	-	-	-	12.14	9.05	6.47	6.07	3.27	-	-	-
Florida	-	4.75	6.95	12.60	11.82	13.20	13.29	9.45	7.96	7.17	3.94	2.35	-
Lake McMillan	-	4.52	7.71	11.04	13.24	17.52	17.91	13.39	12.54	8.58	-	2.77	-
Portales	-	3.16	5.76	8.76	9.90	13.46	-	10.17	10.33	6.55	3.42	1.48	-
Roswell #2	4.48	-	6.52	8.83	9.75	-	9.96	8.18	6.86	5.72	3.78	2.14	-
NEW YORK													
Alcove Dam	-	-	-	-	4.22	4.76	5.31	4.69	3.84	2.40	-	-	-
Ithaca #2	-	-	-	-	4.02	5.20	4.92	4.65	4.16	2.99	-	-	-
New York Central Park	-	-	-	4.09	4.70	5.86	6.54	5.17	4.55	3.35	-	-	-
NORTH CAROLINA													
Chapel Hill	-	-	-	4.03	5.69	5.87	5.39	4.61	3.67	2.01	1.82	-	-
Coweeta	1.39	1.66	2.31	3.25	4.79	3.92	4.56	3.90	3.26	2.19	1.89	.88	34.00
Hoffmann Forest (Maysville)	2.41	2.53	3.42	5.45	6.77	7.31	8.09	5.76	4.89	3.14	1.90	1.66	53.33
Lake Michie	-	-	-	-	-	-	-	-	-	-	-	-	-
OHIO													
Charles Mill Dam	-	-	-	3.32	3.89	5.80	4.73	5.81	3.78	2.69	-	-	-
Dayton	-	-	-	3.33	4.90	6.19	5.58	5.03	3.78	2.25	-	-	-
Ohio State University	-	-	-	4.08	4.42	4.19	4.60	4.50	3.03	1.79	-	-	-
Senecaville	-	-	-	4.79	5.10	6.31	5.71	5.68	4.59	3.35	-	-	-
Wooster	-	-	-	-	-	-	5.88	-	4.77	-	-	-	-
Chesapeake-Huntington AP	-	-	-	-	5.18	5.58	5.72	5.13	5.03	3.36	-	-	-
OKLAHOMA													
Altus Dam	-	-	-	-	-	-	-	15.14	12.38	9.56	3.96	2.86	-
Canton Dam	-	-	-	5.72	6.88	9.54	10.84	11.39	9.70	5.92	2.47	-	-
Fort Gibson	-	-	-	4.84	6.08	7.60	7.52	9.03	7.66	4.83	2.13	-	-
Fort Supply Dam	7.60	6.13	5.79	6.42	9.13	10.00	8.66	10.79	11.06	8.37	5.31	-	-
Grand River Dam	2.43	-	3.39	4.95	7.09	8.40	9.06	10.36	7.61	5.09	2.02	1.81	-
Great Salt Plains	.86	-	-	6.65	8.68	10.94	12.36	13.90	12.72	8.40	2.72	-	-
Hulah Dam	-	3.54	-	5.61	6.67	8.90	9.63	11.32	8.84	5.45	2.26	-	-
Lake Carl Blackwell	-	-	-	5.52	7.33	-	-	-	-	-	-	-	-
Norman	-	-	-	-	4.59	5.26	8.18	9.10	7.25	-	1.84	1.69	-
Tipton	-	-	5.10	5.34	7.36	11.60	11.10	12.05	10.67	5.80	2.19	-	-
Wister Dam	-	-	-	6.58	6.70	9.45	9.41	9.77	6.94	4.36	1.76	1.49	-
OREGON													
Corvallis	-	-	-	-	5.04	2.98	5.59	5.00	4.16	-	-	-	-
Cottage Grove Dam	-	-	-	-	5.95	4.67	7.17	5.77	3.89	-	-	-	-
Fern Ridge Dam	-	-	-	-	7.05	4.92	7.35	6.57	4.54	-	-	-	-
Medford	-	1.18	2.12	4.00	6.27	5.36	7.65	6.19	4.99	1.92	.70	.34	-
Odell Lake (1)	-	-	-	-	-	-	-	-	-	.82	-	-	-
Warm Spring Res.	-	-	-	4.97	8.48	6.93	10.40	9.18	5.43	2.36	-	-	-
Wickiup Dam	-	-	-	-	7.06	5.69	7.62	6.82	5.15	2.27	-	-	-
PENNSYLVANIA													
Confluence 1SW	-	-	-	-	4.19	4.91	4.94	4.63	3.77	-	-	-	-
Ford City 4S	-	-	-	-	4.04	5.09	5.15	4.83	3.64	-	-	-	-
Hawley (Wallenpaupack Dam)	-	-	-	-	6.64	5.10	5.72	4.06	4.07	-	-	-	-
Jamestown 2NW (Pymatuning)	-	-	-	-	3.51	5.18	4.83	4.55	3.96	-	-	-	-
Shaver Creek	-	-	-	-	4.97	5.50	4.96	3.79	3.57	-	-	-	-
SOUTH CAROLINA													
Clemson	2.15	2.93	3.91	5.66	7.62	6.82	6.84	5.73	5.38	2.73	2.09	1.44	53.30
TENNESSEE													
Center Hill Dam	-	-	1.99	4.56	5.48	6.09	7.03	6.54	5.83	3.98	2.18	1.22	-
Neptune	-	-	-	4.22	5.16	5.30	6.53	5.97	4.95	3.28	1.57	-	-
TEXAS													
Austin	2.46	3.64	5.32	4.95	7.71	10.27	11.59	9.60	9.98	7.61	4.33	2.60	80.06
Balmorhea	1.99	3.76	4.52	7.45	8.97	10.57	11.80	9.67	8.76	7.16	3.61	2.62	80.88
Buchanan Dam	3.46	3.53	5.61	6.77	8.51	-	-	-	-	-	-	-	-
Del Rio	2.16	4.73	7.03	8.06	10.25	10.32	-	10.04	9.42	8.00	4.28	-	-
Dennison Dam Site	2.39	3.39	4.31	5.55	7.41	10.66	10.96	8.65	4.49	3.35	1.94	73.49	-
Dilley	2.59	3.77	6.25	8.01	8.68	10.45	11.91	8.57	9.78	7.22	3.88	2.53	83.64
Fort Stockton	-	-	-	-	-	-	15.02	11.85	11.23	9.52	4.92	3.27	-
Grandfalls	-	4.77	8.07	10.96	13.83	14.02	14.66	12.67	10.38	8.38	4.36	2.59	-
Laredo	2.75	4.01	8.23	10.29	9.96	11.83	-	11.39	12.28	10.01	5.84	3.07	-
Mansfield Dam	-	3.19	4.40	5.32	6.87	10.68	-	9.64	9.22	7.09	2.81	2.15	-
Red Bluff Dam	4.25	4.38	7.30	10.84	12.51	16.01	-	-	11.58	8.47	4.44	2.91	-
Ysleta	4.68	4.69	8.41	10.39	13.26	12.70	12.71	10.44	9.33	7.10	3.64	-	-
UTAH													
Bear River	-	-	-	-	-	7.36	10.55	9.36	6.34	-	-	-	-
Fort Duchesne	-	-	-	-	7.54	6.07	8.69	6.66	6.46	-	-	-	-
Moon Lake	-	-	-	-	-	-	7.63	5.00	-	-	-	-	-
Plute Dam	-	-	-	-	9.08	7.86	-	8.52	7.99	4.64	-	-	-
Utah Lake	-	-	3.54	5.39	8.07	8.14	10.90	8.53	7.52	4.23	.87	-	-
WASHINGTON													
Bumping Lake	-	-	-	-	-	4.03	6.63	5.56	2.83	1.75	-	-	-
Lake Kachess	-	-	-	-	5.51	4.43	6.18	5.53	2.97	-	-	-	-
Moses Lake Dev. Farm	-	-	-	-	-	-	-	-	5.62	2.51	-	-	-
Othello (nr)	-	-	-	5.83	10.55	9.96	13.32	10.76	6.70	2.55	-	-	-
Quincy (nr)	-	-	-	-	11.68	11.27	13.91	11.46	6.63	2.87	-	-	-
Rimrock	Opened June 4, 1947	-	-	-	-	6.29	8.74	7.82	4.38	2.18	-	-	-
Seattle	-	1.14	1.90	3.43	4.96	4.66	6.40	5.29	3.08	1.51	.36	-	-

Table 15-Continued

TOTAL EVAPORATION AND WIND MOVEMENT

YEAR 1947

State and Station	January	February	March	April	May	June	July	August	September	October	November	December	Annual
WASHINGTON (Cont'd)													
Walla Walla	-	-	-	4.89	8.29	8.06	9.15	7.96	4.74	2.46	-	-	-
Wind River	-	-	-	-	5.86	4.72	5.59	4.72	3.68	-	-	-	-
WEST VIRGINIA													
Clarksburg	-	-	-	4.67	4.51	4.96	5.22	3.62	3.21	1.88	-	-	-
Wardensville	-	-	-	5.42	5.43	5.98	6.72	6.31	4.42	3.59	1.41	-	-
WISCONSIN													
Marshfield	-	-	-	-	3.87	5.77	6.42	8.06	4.28	3.24	-	-	-
Rainbow Reservoir	-	-	-	-	3.79	5.68	6.17	6.60	3.42	2.80	-	-	-
Trempealeau	-	-	-	-	5.42	7.57	8.13	7.49	5.81	3.39	-	-	-
ALASKA													
College	-	-	-	-	-	.78	-	1.66	-	-	-	-	-
Matanuska #14	-	-	-	-	4.84	4.92	5.60	-	-	-	-	-	-
HAWAII													
Waianae	3.89	4.37	6.11	7.17	7.06	7.25	7.50	6.77	6.15	6.29	4.30	4.31	71.17
PUERTO RICO													
Mayaguez	3.20	3.68	4.73	4.43	4.28	4.57	4.58	3.93	4.11	3.87	3.98	3.62	48.98
San Juan	5.60	4.92	7.54	8.44	7.68	6.76	8.95	8.16	6.90	6.58	6.35	6.22	84.10

TOTAL EVAPORATION AND WIND MOVEMENT

Table 15

YEAR 1948

State and Station	January	February	March	April	May	June	July	August	September	October	November	December	Annual
ALABAMA													
Auburn	-	-	5.69	6.84	9.52	10.58	7.64	6.07	6.04	4.18	3.02	1.82	-
Fairhope	1.88	1.81	3.83	5.39	6.97	6.77	6.16	4.97	4.19	3.66	1.89	1.59	49.11
ARIZONA													
Bartlett Dam	5.58	4.55	6.91	12.22	15.50	17.51	17.92	16.05	14.53	10.66	6.89	4.80	133.12
Davis Dam	-	-	7.87	9.77	12.35	12.24	13.82	11.89	9.93	4.89	5.40	4.02	-
Mesa Exp. Farm	3.25	3.54	4.96	7.65	9.68	11.10	12.01	11.23	8.90	7.12	4.38	2.16	85.98
Pierce Ferry	-	-	-	-	-	-	-	-	-	8.20	3.76	2.54	-
Roosevelt	2.06	2.65	4.67	9.54	12.09	13.91	14.06	11.75	9.27	6.06	3.20	2.20	91.46
Sacaton	4.09	3.98	6.39	10.30	13.55	15.13	15.24	13.10	11.75	9.02	5.43	3.18	111.16
San Carlos	-	-	-	-	-	-	15.18	13.56	11.56	7.59	4.01	2.23	-
Sierra Ancha	2.71	1.95	2.95	7.45	10.18	12.15	11.59	9.67	9.15	6.76	3.47	2.31	80.34
Tucson-Univ. of Arizona	1.67	2.28	4.23	8.50	11.57	13.19	12.41	9.57	9.70	6.81	3.76	1.97	85.66
Yuma (Citrus)	3.99	4.28	5.88	9.00	10.77	11.58	14.21	12.79	10.25	7.34	4.83	2.94	97.86
ARKANSAS													
Bethesda	-	-	-	-	7.13	8.37	6.97	6.39	7.57	4.42	-	-	-
Hope	-	2.41	4.37	6.42	6.37	7.62	7.58	6.93	7.16	4.93	2.62	2.20	-
Nimrod Dam	-	-	-	-	6.26	7.47	6.96	5.76	5.46	3.95	2.41	-	-
Norfolk Dam	-	-	-	7.45	5.74	7.60	7.16	6.59	5.91	3.84	-	-	-
Russellville	-	-	-	-	-	-	-	-	-	-	-	1.48	-
Stuttgart	-	-	3.15	5.07	5.63	6.62	6.38	5.65	4.88	3.24	1.72	1.45	-
CALIFORNIA													
Backus Ranch	3.27	4.66	5.98	8.48	13.08	14.12	18.51	16.52	13.50	6.73	4.68	2.70	112.23
Beaumont	5.36	3.65	4.21	5.54	8.21	9.64	13.40	12.27	10.57	6.49	7.21	3.24	89.79
Boca	-	-	-	-	6.04	7.58	10.87	9.48	7.02	4.30	-	-	-
Camp Pardee	.72	1.36	1.80	2.44	4.83	7.79	10.66	9.06	7.81	3.15	1.63	.76	52.01
Chula Vista	2.76	3.39	4.70	6.45	7.51	7.08	7.66	7.28	6.11	4.16	3.83	2.54	63.47
Davis	1.94	2.70	3.96	3.92	6.47	9.00	11.25	9.42	6.95	4.89	3.32	.98	64.80
Fall River Mills (Land Pan)	-	-	2.48	2.80	5.78	7.74	11.19	9.69	6.30	3.18	-	-	-
Frant	2.65	3.22	4.44	5.37	9.31	13.14	16.51	14.93	11.11	6.42	3.89	1.28	92.27
Lakeshore	1.96	1.37	2.34	3.04	4.64	6.68	8.92	8.20	5.58	2.74	1.52	.66	47.65
Lodi	1.39	2.70	3.22	4.45	7.45	9.85	11.06	9.39	7.19	4.06	2.06	.72	63.54
Newark	1.92	2.31	4.08	4.42	6.21	7.78	8.32	7.17	6.15	4.32	3.31	1.35	57.34
Oakdale	1.36	2.07	-	4.37	7.45	11.24	14.50	12.75	9.36	4.37	3.02	1.51	-
Salt Springs	3.48	-	2.48	3.05	5.31	6.72	10.66	9.94	8.46	4.77	2.58	-	-
Shasta Dam	3.30	2.09	2.80	2.92	5.85	8.37	10.88	9.78	7.08	4.36	2.99	1.54	61.96
Tahoe	-	-	-	-	2.59	3.23	4.42	4.53	3.37	1.47	-	-	-
Turntable Creek	4.59	2.31	3.20	4.10	4.47	7.61	10.90	9.82	11.37	5.53	4.11	-	-
COLORADO													
Conejos Dam	-	-	-	-	7.37	7.32	7.74	7.07	8.19	7.18	-	-	-
Grand Junction	-	-	-	8.51	13.42	13.57	14.92	12.17	10.61	6.28	.59	-	-
Green Mt. Dam	-	-	-	-	-	-	7.20	6.25	5.78	2.45	-	-	-
John Martin Dam	-	-	-	9.50	10.05	10.27	12.78	11.12	10.26	6.28	2.64	-	-
Montrose	.99	1.06	2.61	6.15	8.53	8.30	9.11	6.90	5.75	3.80	1.31	1.28	55.79
Pueblo	1.92	1.96	3.38	8.24	8.60	9.29	12.82	-	9.56	7.03	4.88	3.74	-
San Luis Lakes	-	-	-	7.37	9.00	8.56	9.87	8.40	7.53	4.11	-	-	-
Sugar Loaf Reservoir	-	-	-	-	-	5.60	5.77	4.43	4.33	2.94	-	-	-
Vallecito Dam	-	-	-	-	5.62	5.59	7.79	6.27	5.63	3.49	-	-	-
Wagon Wheel Gap	-	-	-	-	-	7.68	8.58	5.84	6.08	2.59	-	-	-
FLORIDA													
Belle Glade	2.74	3.84	6.17	6.09	7.24	6.95	5.36	6.26	5.24	4.90	3.84	3.13	61.76
Hialeah	3.71	4.70	7.57	7.86	8.24	8.19	6.93	5.94	5.58	4.56	4.36	3.28	70.92
Loxahatchee	2.88	4.33	5.75	7.06	6.97	7.41	6.20	6.66	5.49	4.70	3.64	2.75	63.84
Tamiami Trail	2.78	3.56	5.69	5.93	6.70	6.03	-	6.64	4.65	3.50	3.67	2.96	-
GEORGIA													
Ailey	1.87	-	3.91	4.84	6.30	7.14	6.13	-	3.76	3.58	2.25	2.20	-
Athens	-	2.37	4.30	6.54	8.61	8.37	7.76	6.77	6.77	4.14	2.86	-	-
Experiment	1.86	2.08	4.60	6.43	8.21	8.36	6.61	5.58	4.98	3.52	1.65	-	-
Haggards Mill	1.88	2.17	3.98	6.12	7.96	7.76	6.11	5.73	4.60	3.63	2.16	1.52	53.62
Rome	1.38	1.90	5.07	6.73	7.79	8.35	-	5.61	4.92	3.18	2.06	1.09	-
Tifton	1.79	2.02	3.87	6.40	7.57	7.18	5.91	5.69	4.61	3.43	2.70	-	-
IDAHO													
Aberdeen	-	-	-	-	7.13	5.60	7.51	6.75	4.50	-	-	-	-
Arrowrock Dam	-	-	-	-	5.89	7.50	9.92	9.24	5.92	-	-	-	-
Blackfoot Dam	-	-	-	-	-	-	-	7.39	-	-	-	-	-
Lifton	-	-	-	3.03	6.72	6.94	9.14	9.09	6.58	2.95	-	-	-
Minidoka Dam (Rupert)	-	-	-	5.20	-	-	-	-	-	-	-	-	-
Moscow	-	-	-	1.89	3.26	5.16	5.70	4.34	3.09	-	-	-	-
Palisades Dam	-	-	-	-	6.35	5.94	7.36	8.06	6.29	-	-	-	-
ILLINOIS													
Carbondale	-	-	-	7.25	7.21	-	-	5.98	-	-	-	-	-
Springfield	-	-	-	7.23	7.24	7.32	7.81	7.48	5.98	4.12	-	-	-
Urbana	-	-	-	4.59	5.40	6.76	6.94	6.21	4.58	2.46	1.51	-	-
INDIANA													
Evansville	-	-	-	5.84	6.33	8.24	7.65	7.19	5.99	3.28	1.76	-	-
Indianapolis (Oaklandon Geist Res.)	-	-	-	3.83	4.79	5.54	5.40	5.92	3.98	1.91	-	-	-
Kendallville	-	-	-	4.60	5.14	4.64	6.42	6.37	4.50	2.11	1.48	-	-
Valparaiso	-	-	3.04	4.30	5.04	4.59	5.92	5.70	4.08	2.15	1.14	-	-
IOWA													
Ames	-	-	-	5.95	6.04	6.57	7.96	7.29	5.81	3.25	.88	-	-
Cherokee	-	-	-	5.35	5.93	6.16	7.77	6.50	5.40	3.01	-	-	-
Iowa City	-	-	-	6.03	5.93	6.97	7.92	6.62	5.55	3.50	-	-	-
Norwich SCS Farm	-	-	-	-	6.69	7.80	8.82	8.78	7.86	1.27	-	-	-
KANSAS													
Fall River Dam	-	-	-	9.09	8.62	9.62	9.72	7.36	8.45	7.06	-	-	-
Hays	-	-	-	12.52	11.16	10.90	11.77	10.82	12.01	8.58	-	-	-
Manhattan	-	-	-	7.89	7.48	8.75	7.85	7.30	7.72	4.70	-	-	-
Tribune	-	-	-	9.02	9.02	9.82	12.39	9.68	9.63	-	-	-	-
KENTUCKY													
Dix Dam	-	-	-	5.76	5.16	6.16	6.54	5.47	4.40	2.38	1.95	-	-
Wolf Creek Dam	-	-	-	4.96	5.12	7.24	6.99	5.23	4.32	2.44	1.84	-	-
LOUISIANA													
Hackberry (nr)	3.04	2.70	5.43	6.94	8.00	9.69	9.77	9.44	6.62	6.36	4.16	2.57	74.72
MARYLAND													
Beltsville	-	-	-	-	5.64	6.08	6.95	6.22	4.30	3.12	2.63	-	-
MICHIGAN													
Germfask	-	-	-	-	5.42	5.17	6.28	5.18	3.64	-	-	-	-
MISSISSIPPI													
Sardis Dam	-	-	-	-	-	-	8.78	6.48	5.44	-	2.27	1.76	-
State College	-	-	-	-	-	-	-	-	-	-	2.14	1.87	-
MISSOURI													
Columbia (nr)	-	-	-	6.15	5.20	6.03	5.68	5.94	5.16	3.17	-	-	-

Table 15-Continued

TOTAL EVAPORATION AND WIND MOVEMENT

YEAR 1948

State and Station	January	February	March	April	May	June	July	August	September	October	November	December	Annual
MISSOURI (Cont'd.)													
Lakeside	-	1.18	3.06	6.87	5.70	6.18	6.62	5.63	-	3.40	2.25	-	-
St. Louis-Washington U.	-	-	2.37	4.97	4.85	6.04	-	5.77	4.30	1.92	.86	-	-
MONTANA													
Bozeman	-	-	-	-	3.78	2.74	4.00	4.86	3.46	-	-	-	-
Fort Peck	-	-	-	-	7.30	6.05	9.06	7.87	6.88	-	-	-	-
Hungry Horse	-	-	-	-	3.72	5.55	6.76	5.21	4.51	-	-	-	-
Lonesome Lake	-	-	-	-	6.67	5.32	8.68	8.74	6.80	-	-	-	-
Malta	-	-	-	-	5.86	4.44	6.85	6.90	4.25	-	-	-	-
Sherburne	-	-	-	-	-	4.61	6.70	5.72	-	-	-	-	-
Tiber Lake	-	-	-	-	7.32	6.04	10.15	10.88	7.74	4.32	-	-	-
Valier	-	-	-	-	-	-	7.16	7.06	6.67	-	-	-	-
Yellowtail Dam	-	-	-	-	-	6.26	11.20	11.24	8.39	5.12	-	-	-
NEBRASKA													
Bridgeport	-	-	-	7.13	7.45	6.14	9.19	7.81	6.56	3.95	-	-	-
Kingsley Dam	-	-	-	-	9.27	7.60	10.08	9.67	7.99	4.19	-	-	-
Lincoln	-	-	-	5.94	6.40	6.93	8.77	7.87	6.15	3.43	-	-	-
Rosemont (nr)	-	-	-	9.90	9.82	10.70	11.00	12.03	11.18	7.65	-	-	-
Valentine	-	-	-	-	7.32	7.04	9.84	8.98	-	-	.34	-	-
NEVADA													
Boulder City	4.18	4.07	7.06	10.90	14.92	15.52	17.88	15.17	12.18	8.04	5.08	8.28	118.28
Rye Patch Dam	-	-	-	-	-	9.05	12.91	11.36	7.69	-	-	-	-
NEW HAMPSHIRE													
Massabesic Lake	-	-	-	3.45	3.09	4.40	6.60	5.36	4.26	2.19	1.19	-	-
NEW JERSEY													
Canoe Brook	-	-	-	-	3.93	3.63	4.13	3.09	2.94	1.32	-	-	-
Pleasantville	-	-	-	3.73	4.17	3.72	5.37	4.32	3.73	2.16	-	-	-
Runyon	-	-	-	-	3.80	3.47	4.24	3.64	4.57	2.46	-	-	-
NEW MEXICO													
Agr. College	3.23	4.22	7.32	11.46	14.16	14.22	14.09	12.77	9.89	6.90	4.60	2.97	105.84
Alamogordo Dam	2.53	3.47	7.04	12.42	12.29	13.29	13.83	11.97	10.90	7.13	5.20	5.95	106.02
Bosque Del Apache	-	5.35	7.91	12.23	13.77	12.90	12.72	11.92	9.81	6.72	4.41	4.54	-
Caballo Dam	3.02	5.32	8.49	14.20	14.75	15.58	13.82	14.08	11.61	7.50	5.44	3.69	117.50
Conchas Dam	-	-	-	11.14	9.81	10.10	11.85	10.66	9.51	6.65	-	-	-
Eagle Nest	-	-	-	-	-	8.36	8.32	7.17	6.95	4.68	-	-	-
Elephant Butte	3.64	4.52	9.28	14.02	16.51	15.98	15.20	14.66	12.17	7.84	5.59	4.52	123.93
El Vado Dam	-	-	-	-	7.69	-	-	7.80	6.68	4.72	-	-	-
Florida	-	3.98	7.92	12.25	12.85	12.35	12.92	10.51	8.68	5.54	4.83	3.31	-
Jornada	2.74	5.08	7.04	10.06	11.39	12.08	11.41	10.29	8.52	5.12	3.36	2.28	89.37
Lake McMillan	-	3.02	11.93	13.88	14.11	14.92	13.47	14.05	10.47	-	-	-	-
Portales	-	3.05	6.47	10.30	11.36	11.08	11.78	8.94	6.75	5.45	3.92	3.33	-
Roswell #2	1.84	3.92	7.17	10.03	10.44	10.23	-	8.26	6.65	4.33	3.11	3.08	-
Santa Fe	-	-	-	-	-	10.80	10.16	9.48	8.82	5.58	-	-	-
Tucumcari	-	-	-	9.34	9.09	8.96	11.33	9.12	8.73	-	-	-	-
NEW YORK													
Alcove Dam	-	-	-	-	-	-	6.56	-	4.12	2.39	-	-	-
Ithaca #2	-	-	-	-	3.44	4.27	5.57	5.12	3.51	1.88	-	-	-
New York Central Park	-	-	-	-	4.58	4.39	7.18	5.04	-	3.18	1.92	-	-
Pulaski	-	-	-	-	4.47	5.86	6.93	6.52	4.88	3.26	2.18	-	-
NORTH CAROLINA													
Beetree Dam	.65	1.51	3.18	5.03	5.80	5.22	6.03	4.48	3.82	2.89	2.43	1.12	42.16
Chapel Hill	-	-	3.04	4.46	5.07	5.00	5.62	4.16	8.59	2.04	1.29	1.05	-
Coweeta	-	1.25	2.48	3.88	4.13	3.93	4.14	3.77	2.89	2.51	1.64	1.15	-
Hoffmann Forest (Maysville)	1.73	1.94	4.79	6.18	7.45	7.65	8.06	6.69	4.86	3.07	2.85	1.57	56.84
Murphy	.53	1.30	3.27	4.88	5.88	5.69	5.94	4.76	3.43	2.67	1.95	.89	41.19
OHIO													
Charles Mill Dam	-	-	-	4.18	-	-	6.14	-	-	2.00	-	-	-
Chesapeake (Huntington AP)	-	-	-	-	-	5.12	5.49	5.29	4.14	1.77	-	-	-
Dayton	-	-	-	4.31	5.54	-	6.13	5.19	4.07	2.21	-	-	-
Ohio State U. (Columbus)	-	-	-	-	-	-	4.87	5.25	-	1.50	-	-	-
Senecaville	-	-	-	-	5.37	6.18	6.85	5.72	4.56	2.59	-	-	-
Wooster	-	-	-	-	5.17	5.82	6.46	6.76	4.74	2.11	-	-	-
OKLAHOMA													
Altus Dam	-	-	5.62	12.22	11.86	12.54	12.90	12.42	11.21	7.98	5.54	4.45	-
Canton Dam	-	-	3.49	8.18	8.77	8.45	10.48	8.58	7.79	5.70	3.00	2.53	-
Fort Gibson	-	-	4.16	6.74	5.87	6.55	6.33	5.94	6.60	4.25	2.88	2.69	-
Fort Supply Dam	-	-	5.16	10.97	10.37	11.56	12.07	10.12	9.22	7.87	-	-	-
Grand River Dam	-	1.44	5.22	7.54	7.30	8.92	8.11	6.46	6.94	4.47	2.84	2.70	-
Great Salt Plains	-	-	3.82	9.59	10.84	10.59	11.61	10.06	9.98	6.94	2.98	2.36	-
Hulah Dam	-	-	5.46	8.77	7.26	9.29	8.23	7.08	7.08	5.34	3.16	2.41	-
Norman University	-	1.52	-	-	-	7.43	7.43	7.06	7.15	-	-	-	-
Stillwater	-	-	-	-	-	11.11	9.23	7.92	9.00	6.34	4.52	2.69	-
Tipton	-	1.41	3.38	7.68	8.32	10.21	10.32	10.15	10.07	5.81	4.82	3.73	-
Wister Dam	1.82	1.83	4.31	6.93	6.82	8.43	7.76	6.74	6.66	4.52	3.30	2.39	61.51
OREGON													
Corvallis	-	-	-	-	-	4.56	5.65	4.76	-	-	-	-	-
Cottage Grove Dam	-	-	-	-	-	5.48	7.70	5.30	-	-	-	-	-
Fern Ridge Dam	-	-	-	-	4.32	6.52	7.89	5.93	5.11	-	-	-	-
Malheur Branch Exp. Sta.	-	-	-	4.37	6.24	8.07	9.12	8.12	5.20	2.83	.91	-	-
Medford	-	-	1.66	2.59	4.15	5.78	7.37	6.52	3.88	1.64	.50	-	-
Odell Lake (1)	-	-	-	-	-	3.83	4.75	3.56	2.11	1.11	-	-	-
Warm Spring Res.	-	-	-	-	-	7.77	10.74	9.40	6.64	3.22	-	-	-
Wickiup Dam	-	-	-	-	-	-	-	5.24	3.65	-	-	-	-
PENNSYLVANIA													
Confluence 18W	-	-	-	-	5.64	4.78	4.94	4.27	3.35	-	-	-	-
Ford City 4S	-	-	-	-	4.56	-	5.65	4.77	3.79	-	-	-	-
Hawley (Wallenpaupack Dam)	-	-	-	-	3.53	4.76	5.81	4.65	4.09	-	-	-	-
Jamestown 2NW	-	-	-	-	4.30	5.45	5.82	4.86	2.93	-	-	-	-
Neffs Mill	-	-	-	-	-	5.07	5.03	4.49	3.31	-	-	-	-
SOUTH CAROLINA													
Clemson College	1.70	-	4.56	6.06	6.71	6.86	5.92	5.27	3.98	3.27	1.67	1.50	-
SOUTH DAKOTA													
Angostura Dam	-	-	-	-	-	-	-	10.02	10.44	-	-	-	-
TENNESSEE													
Center Hill Dam	-	-	4.12	-	-	-	-	6.06	5.13	3.03	2.63	1.47	-
Jefferson City	.90	1.47	3.26	5.25	6.15	6.98	6.76	5.49	4.84	3.03	1.49	.65	46.27
Neptune	-	-	3.15	-	-	-	-	6.49	4.64	3.05	2.48	-	-
Paris	1.01	1.51	3.46	5.62	6.09	7.25	7.32	6.47	4.66	3.30	2.11	1.35	50.15
TEXAS													
Austin	-	-	5.65	8.58	9.07	11.53	10.92	12.27	8.48	7.12	5.10	3.92	-
Balmorhea	2.68	3.30	7.18	9.99	11.01	12.57	10.57	11.42	8.56	5.53	4.56	-	-

TOTAL EVAPORATION AND WIND MOVEMENT

Table 15-Continued

YEAR 1948

State and Station	January	February	March	April	May	June	July	August	September	October	November	December	Annual
TEXAS (Cont'd.)													
Buchanan Dam	-	-	5.85	9.28	9.01	9.54	10.85	11.14	7.86	6.25	4.86	-	-
Del Rio	3.54	2.70	7.73	10.88	11.88	12.89	11.10	12.56	8.27	5.58	4.60	3.45	95.18
Dennison Dam	2.26	2.21	4.92	9.99	8.76	10.96	10.11	9.73	8.60	6.15	4.77	3.37	81.83
Dilley	3.47	2.95	6.25	9.69	10.70	13.26	10.67	11.12	7.64	4.90	4.13	3.15	87.93
Fort Stockton	2.95	4.19	9.21	12.96	13.46	15.67	13.38	14.77	-	-	-	-	-
Grandfalls	-	4.77	10.13	14.30	14.04	17.46	15.79	15.78	-	-	-	-	-
Lake Kickapoo #2	-	3.32	5.56	11.82	11.28	15.42	13.61	14.06	11.82	8.08	6.69	5.42	-
Laredo	4.43	3.29	7.54	13.02	12.39	16.60	15.73	15.20	8.66	6.20	6.69	4.64	114.39
Mansfield Dam	-	-	5.01	7.76	7.79	11.28	11.12	11.57	7.91	6.01	4.44	-	-
Ysleta	3.12	4.47	8.15	12.20	13.45	14.17	12.91	12.12	9.42	6.67	4.87	4.57	106.12
UTAH													
Bear River Refuge	-	-	-	-	7.84	8.20	11.83	10.88	6.51	-	-	-	-
East Portal	-	-	-	-	-	-	8.33	7.70	6.41	-	-	-	-
Ferron	-	-	-	4.95	7.35	6.22	7.40	6.06	6.14	3.81	-	-	-
Fort Duchesne	-	-	-	-	-	7.15	8.78	6.73	5.44	-	-	-	-
Green River	-	-	-	8.40	12.05	11.44	13.85	10.76	8.54	4.54	-	-	-
Plute Dam	-	-	-	-	9.66	8.67	10.56	9.17	8.12	4.65	-	-	-
Provo	-	-	-	6.31	9.73	8.18	10.64	8.95	6.98	3.60	-	-	-
Scofield Dam	-	-	-	-	-	7.33	10.26	8.14	7.04	-	-	-	-
Utah Lake	-	-	-	6.17	10.23	9.49	12.46	11.01	8.42	4.01	-	-	-
Vernal	-	-	-	4.68	8.09	6.85	7.95	7.14	6.01	-	-	-	-
WASHINGTON													
Bumping Lake	-	-	-	-	-	4.46	4.72	3.74	3.00	-	-	-	-
Lake Kachess	-	-	-	-	3.19	4.90	5.05	4.24	-	-	-	-	-
Moses Lake Dev. Farm	-	-	4.10	4.13	4.81	8.35	9.84	8.22	6.41	-	-	-	-
Othello (nr)	-	-	3.97	4.42	4.26	8.77	9.59	9.09	6.70	2.88	-	-	-
Quincy (nr)	-	-	-	3.46	5.70	8.87	10.77	9.83	7.23	3.58	-	-	-
Rimrock (Tieton Dam)	-	-	-	-	-	6.67	7.66	6.14	3.85	1.63	-	-	-
Seattle	-	-	-	2.07	3.48	4.85	5.45	3.50	3.08	1.63	.82	-	-
Walla Walla	-	-	-	4.30	4.28	7.12	8.46	7.13	4.92	2.52	-	-	-
Wind River	-	-	-	-	-	5.19	5.86	4.19	3.56	-	-	-	-
WEST VIRGINIA													
Clarksburg	-	-	-	3.68	4.09	4.96	5.36	3.75	2.58	1.29	-	-	-
Wardensville	-	-	-	4.19	5.14	5.83	5.57	5.18	3.66	2.04	1.85	-	-
WISCONSIN													
Marshfield	-	-	-	-	-	-	7.66	6.20	5.22	-	-	-	-
Rainbow Reservoir	-	-	-	-	-	5.19	6.07	5.33	4.17	2.29	-	-	-
Trempealeau	-	-	-	-	-	6.24	9.18	8.65	6.10	3.57	-	-	-
PUERTO RICO													
Mayaguez	3.41	3.98	5.42	5.02	5.03	4.01	3.96	4.79	4.63	3.81	3.27	2.79	50.12
San Juan	6.14	7.16	9.06	8.84	7.28	7.24	7.65	7.47	7.63	5.83	4.39	5.61	84.30

TOTAL EVAPORATION AND WIND MOVEMENT

YEAR 1949

State and Station	January	February	March	April	May	June	July	August	September	October	November	December	Annual
ALABAMA													
Auburn	2.64	2.73	4.42	6.03	7.82	6.75	7.01	5.99	6.11	4.05	2.99	1.95	58.49
Fairhope	1.75	2.18	3.56	4.82	6.62	5.31	5.06	6.59	4.49	3.04	2.82	1.79	48.03
ARIZONA													
Bartlett Dam	2.09	4.08	7.29	10.45	14.54	15.30	15.53	17.06	12.18	8.82	7.79	4.57	119.70
Davis Dam	-	3.88	6.09	9.19	11.45	13.77	13.81	12.79	9.65	7.54	6.36	3.99	-
Mesa Exp. Farm	1.92	3.27	5.92	7.10	10.11	11.57	11.06	10.27	8.47	5.72	4.24	2.69	82.34
Pierce Ferry	2.09	2.61	6.43	9.68	14.02	17.85	19.82	18.16	14.57	8.51	3.92	1.94	119.60
Roosevelt	3.98	2.55	5.27	7.57	11.19	13.48	13.50	12.79	9.42	5.45	3.22	2.22	90.64
Sacaton	2.40	3.39	6.63	9.99	13.23	15.29	13.68	14.45	10.59	7.38	6.08	3.61	107.61
San Carlos Res.	1.64	3.39	6.63	8.67	12.64	14.24	13.40	13.24	10.71	6.52	3.73	1.94	96.74
Sierra Ancha	1.23	2.25	4.01	6.53	8.58	10.19	9.06	11.30	8.71	5.14	4.44	2.26	73.70
Tucson-Univ. of Arizona	1.67	2.96	5.94	8.31	11.47	12.72	10.40	11.73	8.72	5.35	3.66	1.81	84.74
Yuma-Citrus Sta.	2.28	3.81	6.74	8.58	11.02	14.08	15.40	12.58	10.40	6.83	4.82	3.10	99.64
ARKANSAS													
Bethesda	-	-	-	5.37	6.96	6.30	-	-	-	-	-	-	-
Hope	-	3.02	3.89	5.01	6.58	5.54	6.65	6.29	5.78	3.92	3.11	1.99	-
Nimrod Dam	-	-	-	5.13	6.44	6.28	7.17	6.28	5.06	3.32	3.24	-	-
Norfolk Dam	-	-	-	-	6.35	6.64	-	-	-	-	-	-	-
Russellville	-	-	-	-	-	-	-	-	4.59	2.47	2.01	1.06	-
Stuttgart 9ESE	1.02	-	2.46	4.13	5.79	5.44	5.30	5.14	3.68	2.35	2.23	-	-
CALIFORNIA													
Backus Ranch	1.96	2.70	5.59	10.77	12.16	17.42	17.01	14.82	13.34	7.60	4.18	2.39	109.94
Beaumont WB	2.37	2.48	3.77	6.69	7.12	10.62	12.75	11.93	10.82	7.53	7.46	4.45	87.99
Boca	-	-	-	-	6.94	9.84	10.82	8.70	7.15	4.11	-	-	-
Camp Pardee	.69	1.05	1.67	5.11	6.20	10.96	12.07	9.41	7.32	4.60	1.76	.86	61.70
Chula Vista	2.35	2.77	4.63	3.34	6.44	7.43	7.47	7.49	5.92	5.20	3.75	2.85	61.64
Davis Agr. College	2.29	1.73	3.35	7.21	8.67	11.82	12.37	9.92	8.52	6.69	2.54	1.32	76.43
Fall River Mills Intake	-	-	1.98	6.50	6.79	10.10	12.27	9.96	7.43	4.05	1.24	-	-
Friant Gov. Camp	1.70	2.29	3.86	7.18	11.08	15.51	16.56	13.40	10.82	7.27	3.31	1.71	94.69
Lakeshore	.84	.92	2.33	5.61	5.87	8.57	10.58	8.69	6.42	3.64	1.49	.69	55.35
Lodi	1.50	1.53	3.25	6.49	7.36	10.35	10.76	9.01	6.87	5.25	1.94	.86	65.17
Newark	2.17	1.76	3.79	6.03	7.17	8.86	8.49	7.24	6.63	5.12	1.88	1.45	60.59
Oakdale-Woodward Dam	1.27	1.41	-	6.44	9.32	13.78	14.61	11.63	-	5.28	1.98	.78	-
Salt Springs PH.	-	-	2.24	6.59	5.54	9.92	11.34	9.08	8.58	5.45	4.48	-	-
Shasta Dam	2.25	.92	2.38	6.86	7.05	11.32	12.15	10.34	7.70	5.69	3.56	-	-
Tahoe	-	-	-	-	3.15	4.15	4.91	4.80	3.32	1.98	-	-	-
Turntable Creek	2.72	2.44	3.03	7.16	6.88	10.27	11.25	10.06	9.47	7.44	3.14	2.59	76.45
COLORADO													
Bonny Dam	-	-	-	-	-	9.46	11.48	11.22	7.45	6.40	4.73	-	-
Conejos 3NNW	-	-	-	7.55	8.95	8.48	8.81	10.23	7.59	-	-	-	-
Grand Junction WB	-	-	-	7.75	9.35	12.77	13.13	14.24	9.66	5.23	2.66	-	-
Grand Lake 4SSW	-	-	-	-	-	-	-	-	-	2.36	-	-	-
Green Mtn. Dam 4SSW	-	-	-	-	4.42	5.47	6.01	5.85	4.47	2.26	-	-	-
John Martin Dam	-	-	-	6.22	9.30	10.09	12.00	10.38	8.42	5.78	3.38	-	-
Montrose #1	-	-	-	5.27	-	7.93	8.76	-	5.60	3.49	2.20	1.75	-
Pueblo City Res.	-	-	-	7.75	9.94	10.21	11.71	-	9.84	5.07	3.96	-	-
San Luis Lakes 3W	-	-	-	5.68	8.40	8.64	9.06	7.65	5.68	4.07	-	-	-
Sugar Loaf Res.	-	-	-	-	-	4.71	4.48	-	5.12	-	-	-	-
Vallecito Dam	-	-	-	-	4.64	5.41	6.56	7.03	5.39	-	-	-	-
Wagon Wheel Gap 3N	-	-	-	-	6.13	6.98	6.56	6.84	5.10	3.20	-	-	-
FLORIDA													
Belle Glade Exp. Sta.	3.59	4.75	6.00	6.41	7.04	6.18	-	-	5.62	4.94	3.57	3.61	-
Hialeah	4.52	4.94	6.73	7.17	8.08	5.92	6.60	7.02	6.28	6.49	4.16	4.22	72.13
Oxahatchee	-	4.34	6.01	6.12	7.22	5.37	6.20	5.43	5.24	4.83	2.65	2.85	-
Tamiami Trail 40 Mi Bnd	3.44	3.59	5.76	6.50	6.71	-	7.14	6.17	6.67	5.54	4.41	4.60	-
GEORGIA													
Ailey	2.25	2.73	3.90	5.58	6.79	5.71	6.44	6.21	5.03	3.60	2.58	2.10	52.92
Athens	2.65	3.70	4.44	6.07	7.71	6.76	7.98	6.42	5.31	3.51	2.86	-	-
Experiment	1.95	2.58	3.72	5.09	7.40	6.17	6.71	5.79	5.03	3.41	3.00	2.14	52.99
Hoggards Mill	2.02	2.44	4.01	5.32	7.58	6.58	6.26	6.01	5.09	3.93	2.91	2.24	54.40
Rome	1.33	2.49	3.58	5.35	7.44	6.84	6.61	6.05	5.43	3.42	2.41	-	-
Tifton	3.95	2.38	4.12	5.94	6.66	5.99	5.68	5.60	5.04	3.25	2.76	2.32	53.69
IDAHO													
Aberdeen	-	-	-	-	-	-	-	-	-	-	-	-	-
Arrowrock Dam	-	-	-	-	5.52	8.97	11.11	9.14	6.79	-	-	-	-
Blackfoot Dam	-	-	-	-	-	-	-	-	-	-	-	-	-
Lifton	-	-	-	-	6.29	7.86	9.52	8.73	6.32	-	-	-	-
Minidoka Dam	-	-	-	-	8.61	12.17	13.56	11.69	9.14	3.68	2.94	-	-
Moscow	-	-	-	3.12	4.38	6.75	8.42	8.59	5.16	-	-	-	-
Palisades	-	-	-	-	5.45	6.04	7.66	7.99	5.84	-	-	-	-
ILLINOIS													
Carbondale	-	-	-	2.91	4.51	6.89	7.55	6.64	7.23	4.75	3.47	-	-
Springfield WBAS	-	-	-	-	8.34	8.20	8.05	7.08	5.91	4.14	-	-	-
Urbana Wtr. Wks.	-	-	-	3.80	6.39	6.47	6.67	5.46	4.15	5.89	1.29	-	-
INDIANA													
Evansville WBAS	-	-	-	4.83	7.02	6.48	7.18	6.21	5.27	3.77	2.58	-	-
Kendallville	-	-	-	4.52	5.79	5.97	7.19	6.33	3.87	3.28	-	-	-
Oaklandon Geist Res. (Indianapolis)	-	-	-	3.25	5.04	5.25	5.63	4.63	3.52	2.52	-	-	-
Valparaiso Wtr. Wks.	-	-	2.13	3.55	5.61	5.07	6.21	5.56	-	2.67	1.49	-	-
IOWA													
Ames 3SW	-	-	-	4.75	6.06	7.57	7.90	7.56	4.97	3.54	1.68	-	-
Cherokee	-	-	-	4.29	5.85	6.57	8.01	7.28	4.86	3.00	1.85	-	-
Iowa City	-	-	-	4.89	6.28	6.86	7.29	6.47	4.76	3.72	-	-	-
Norwich SCS Farm 2E	-	-	-	-	6.28	7.25	9.33	8.03	5.76	4.59	-	-	-
KANSAS													
Cedar Bluff Dam	-	-	-	-	-	-	-	11.42	7.38	7.44	-	-	-
Fall River Dam	-	-	-	6.64	7.41	7.97	9.87	7.96	6.64	4.88	-	-	-
Hays 1S	-	-	-	8.23	8.09	10.81	14.68	13.80	9.14	8.68	-	-	-
Kanapolis Dam	-	-	-	-	-	9.21	-	-	7.74	7.46	-	-	-
Manhattan Agr Farm 2NW	-	-	-	5.27	6.19	7.68	9.30	9.22	5.58	5.28	-	-	-
Tribune 1W	-	-	-	6.89	9.04	9.77	13.08	10.50	7.46	-	-	-	-
KENTUCKY													
Burgin Dix Dam	-	-	-	3.92	5.92	6.04	7.37	5.04	3.93	1.98	1.60	-	-
Wolf Creek Dam	.80	1.62	3.00	4.18	5.96	6.37	6.27	4.91	4.47	2.58	1.84	-	-
LOUISIANA													
Hackberry	2.50	3.20	4.52	5.32	7.30	8.96	6.65	7.46	6.84	5.74	6.83	-	-
MARYLAND													
Beltsville	-	-	-	-	6.03	6.67	6.76	5.58	4.62	3.69	-	-	-
MICHIGAN													
Germfask Wildlife Ref.	-	-	-	-	5.24	6.67	7.47	5.14	2.85	-	-	-	-
MISSISSIPPI													
Sardis Dam	-	-	4.19	4.04	7.30	6.31	-	14.20	5.64	2.97	2.80	1.43	-
State College	1.93	4.15	4.55	5.59	8.04	7.29	7.21	6.44	5.70	3.59	3.99	2.35	60.83

Table 15-Continued

TOTAL EVAPORATION AND WIND MOVEMENT

YEAR 1949

State and Station	January	February	March	April	May	June	July	August	September	October	November	December	Annual
MISSOURI													
Columbia U. of Mo. 9NW	-	-	-	4.54	6.02	6.81	6.44	5.89	4.35	3.00	-	-	-
Lakeside	-	-	2.71	5.37	6.47	6.98	7.16	6.91	4.66	-	3.23	1.45	-
St. Louis-Washington U.	-	-	-	4.01	6.42	5.20	4.98	5.06	3.74	1.91	-	-	-
MONTANA													
Bozeman Agr. College	-	-	-	-	4.14	4.74	5.94	5.37	2.46	-	-	-	-
Fort Assiniboine	-	-	-	9.53	10.00	11.24	12.95	13.01	8.25	-	-	-	-
Fort Peck	-	-	-	-	7.86	9.08	10.43	10.58	5.95	-	-	-	-
Hungry Horse Dam	-	-	-	-	5.10	6.73	7.27	7.54	3.72	-	-	-	-
Lonesome Lake	-	-	-	-	8.50	10.51	11.40	11.80	6.84	-	-	-	-
Malta	-	-	-	-	6.25	7.08	7.27	7.97	4.84	-	-	-	-
Sherburne Lake	-	-	-	-	-	-	6.78	7.09	-	-	-	-	-
Tiber Lake	-	-	-	9.08	8.95	10.52	12.57	12.26	8.69	-	-	-	-
Valier	-	-	-	-	6.74	8.54	8.82	9.78	8.10	-	-	-	-
Yellowtail Dam	-	-	-	-	7.90	8.96	12.27	11.78	5.64	-	-	-	-
NEBRASKA													
Bridgeport	-	-	-	5.94	5.92	7.03	9.59	-	6.03	3.86	-	-	-
Harlan County Dam	-	-	-	-	-	8.78	11.00	10.09	7.35	5.60	-	-	-
Indianola 2N	-	-	-	-	-	9.47	12.24	10.90	7.52	4.92	-	-	-
Kingsley Dam	-	-	-	-	8.32	7.72	10.57	8.73	5.51	3.37	-	-	-
Lincoln Agr. Farm	-	-	-	4.86	4.91	6.41	7.77	7.50	4.63	3.11	-	-	-
Rosemont 2S	-	-	-	7.27	8.01	9.24	11.64	10.96	7.63	-	-	-	-
Valentine Lakes Game Ref	-	-	-	-	7.19	7.62	10.63	9.49	8.14	6.16	-	-	-
NEVADA													
Boulder City	2.59	2.80	6.93	10.17	12.18	16.38	17.36	13.89	12.09	7.52	4.62	2.97	109.50
Lahontan	-	-	-	7.36	7.57	11.20	12.29	9.12	4.97	2.48	2.09	-	-
Rye Patch Dam	-	-	-	-	7.49	12.26	14.79	12.33	9.94	5.04	-	-	-
NEW HAMPSHIRE													
Manchester	-	-	-	3.73	4.61	6.26	6.49	5.57	3.32	2.36	1.19	-	-
NEW JERSEY													
Pleasantville	1.67	1.46	2.25	1.68	6.68	6.04	6.48	4.49	-	-	-	-	-
Runyon	-	.36	.72	.65	2.75	4.41	6.29	4.88	1.99	2.00	-	-	-
NEW MEXICO													
Agriculture College	2.02	4.21	8.67	9.70	13.43	13.09	11.53	10.12	8.40	6.43	4.24	2.49	94.33
Alamogordo Dam	-	4.79	8.43	9.05	12.05	12.75	13.48	11.80	9.28	7.58	-	3.06	-
Bosque Del Apache	2.23	4.64	8.13	9.69	13.72	14.34	12.14	12.07	8.21	7.46	4.18	2.76	99.57
Caballo Dam	-	4.89	9.38	10.23	14.96	14.03	13.20	12.77	9.44	8.38	5.27	3.32	-
Conchas Dam	-	-	-	7.00	8.77	10.26	11.76	10.18	8.56	6.81	4.94	-	-
Eagle Nest	-	-	-	-	-	-	-	6.53	5.27	4.37	-	-	-
El Vado Dam	-	-	-	-	7.19	8.06	8.09	8.42	6.42	-	-	-	-
Elephant Butte	2.15	4.96	9.47	10.53	16.05	15.28	14.25	14.01	9.61	8.82	5.89	3.65	114.67
Farlington 2	-	-	3.60	6.26	7.71	8.06	8.70	7.24	5.30	3.78	2.23	-	-
Florida	-	3.37	7.60	8.80	11.61	13.00	10.94	8.63	5.66	-	-	-	-
Jornada Exp. Range	1.48	2.64	6.64	7.16	10.94	11.37	8.59	8.75	6.09	4.81	2.78	1.61	72.86
Lake McMillan	-	-	-	-	14.98	14.68	14.00	12.96	7.43	6.89	-	-	-
Portales 7WNW	-	-	6.55	6.96	9.47	8.71	9.83	10.02	7.11	6.18	-	2.59	-
Roswell	-	3.64	3.64	-	-	-	-	-	4.14	-	-	-	-
Sante Fe 2SE	-	-	-	-	9.41	7.59	-	8.69	6.96	5.69	4.56	-	-
NEW YORK													
Alcove Dam	-	-	-	-	2.83	6.31	-	4.70	3.61	-	-	-	-
Ithaca-Cornell Univ.	-	-	-	-	2.74	7.55	6.94	6.00	3.50	2.64	-	-	-
New York Central Park	-	-	-	-	6.64	7.63	6.98	6.27	4.05	3.33	-	-	-
Pulaski	Station closed and equipment moved to Boonville, N. Y.												
NORTH CAROLINA													
Beetree Dam	1.54	1.83	2.92	4.37	5.02	5.03	5.19	4.00	3.73	2.66	1.75	1.05	39.09
Chapel Hill	-	1.36	2.72	3.97	5.15	5.08	5.31	3.56	2.89	2.32	1.80	1.36	-
Coweeta Exp. Sta.	1.21	1.83	2.65	3.38	3.84	3.66	4.27	3.53	3.13	2.13	1.92	1.20	32.75
Hoffman Forest	1.98	2.30	4.22	5.54	6.63	6.44	7.31	5.74	4.43	3.46	2.96	1.69	52.70
Murphy	1.32	1.66	2.47	4.01	5.02	4.90	5.56	4.83	3.80	2.47	1.40	1.24	88.68
NORTH DAKOTA													
Riverdale	-	-	-	-	-	-	11.42	11.79	6.93	-	-	-	-
OHIO													
Charles Mill Dam	-	-	-	3.69	5.97	6.93	6.59	6.11	3.80	3.07	-	-	-
Columbus-Ohio State U.	-	-	-	2.79	4.65	5.13	4.79	-	3.24	2.19	-	-	-
Dayton	-	-	-	3.92	6.03	6.80	6.33	5.16	3.94	2.20	-	-	-
Senecaville Dam	-	-	-	4.01	5.55	7.03	6.63	5.32	4.34	3.30	-	-	-
Wooster Exp. Farm	-	-	-	-	-	-	-	-	4.69	3.71	-	-	-
OKLAHOMA													
Altus Dam	1.85	2.07	5.02	6.32	8.24	10.98	12.69	11.07	6.98	5.98	4.92	3.27	79.39
Canton Dam	-	-	4.49	5.74	6.00	6.97	11.01	10.06	7.13	6.92	5.37	-	-
Fort Gibson Dam	-	2.43	3.97	5.30	5.95	6.62	7.16	6.96	5.70	3.79	3.47	-	-
Fort Supply Dam	-	1.97	4.32	6.66	7.30	10.26	10.33	10.68	7.76	6.42	4.18	-	-
Grand River Dam	-	2.02	3.98	6.37	6.30	6.49	8.50	7.76	5.48	3.83	4.01	2.52	-
Great Salt Plains Dam	-	-	4.63	5.89	8.60	10.24	11.90	10.66	8.15	6.39	4.56	-	-
Heyburn Dam	-	-	-	-	5.93	6.63	7.78	7.43	5.04	-	2.98	1.90	-
Hulah Dam	-	-	4.31	6.63	6.13	7.44	8.83	7.69	6.54	4.95	4.64	2.54	-
Norman University	-	-	-	5.25	6.58	7.99	9.38	7.89	5.43	3.83	3.56	-	-
Stillwater	-	-	-	6.79	8.03	8.78	10.74	9.69	6.39	5.80	5.07	-	-
Tenkiller Ferry Dam	-	-	-	-	6.18	6.60	7.86	7.31	5.27	3.34	3.63	2.14	-
Tipton	-	-	4.81	5.58	7.06	9.51	11.64	9.35	6.38	5.28	4.31	2.99	-
Wister Dam	-	2.31	4.66	5.58	6.77	7.46	7.50	7.43	5.48	3.54	3.27	-	-
OREGON													
Corvallis State College	-	-	-	-	4.06	5.86	6.22	5.51	3.39	-	-	-	-
Cottage Grove Dam	-	-	-	-	5.28	7.37	8.55	6.47	-	-	-	-	-
Fern Ridge Dam	-	-	-	-	5.68	8.05	9.61	7.25	4.60	-	-	-	-
Malheur Branch Exp.Sta.	-	-	-	6.14	7.34	9.76	10.52	8.73	5.68	2.90	.75	-	-
Medford Exp. Sta.	-	-	2.86	4.63	4.75	7.77	8.94	7.16	4.12	1.84	.75	-	-
Odell Lake Land Pan	-	-	-	-	2.45	4.87	5.26	3.88	2.17	-	-	-	-
Warm Springs Res.	-	-	-	6.44	7.51	10.21	12.65	9.68	7.20	-	-	-	-
Wickiup Dam	-	-	-	-	5.71	8.34	8.87	7.68	5.70	-	-	-	-
PENNSYLVANIA													
Confluence Dam 1SW	-	-	-	-	4.49	5.88	5.45	4.30	3.46	2.48	-	-	-
Ford City Dam 4S	-	-	-	-	5.07	6.25	5.46	5.33	4.00	2.59	-	-	-
Hawley 1S-Wallen	-	-	-	-	4.41	5.95	6.17	4.79	5.87	3.40	-	-	-
Jamestown 2SW	-	-	-	-	5.40	6.06	5.83	5.41	3.11	2.66	-	-	-
Neffs Mills 4NE	-	-	-	-	5.64	8.40	-	-	-	-	-	-	-
SOUTH CAROLINA													
Clemson College	2.35	2.53	3.86	5.43	6.29	5.77	6.69	5.26	4.19	2.79	2.60	1.56	49.32
Union 7SW	-	-	-	-	-	-	6.64	5.60	4.33	2.77	2.23	1.30	-
SOUTH DAKOTA													
Angostura Dam	-	-	-	-	7.56	6.82	9.88	10.92	6.94	-	-	-	-
Deerfield Dam	-	-	-	-	-	-	11.35	10.19	6.31	-	-	-	-
Redfield 6E	-	-	-	-	-	-	-	9.19	5.75	3.84	-	-	-

Table 15-Continued

TOTAL EVAPORATION AND WIND MOVEMENT

YEAR 1949

State and Station	January	February	March	April	May	June	July	August	September	October	November	December	Annual
TENNESSEE													
Center Hill Dam	1.64	2.28	3.67	4.43	6.24	6.43	6.30	5.94	4.82	3.26	2.37	1.71	49.09
Jefferson City	.72	1.28	2.37	3.87	5.24	5.53	6.55	4.64	3.87	2.28	1.36	1.03	38.74
Neptune	1.66	-	2.94	4.32	5.27	5.63	5.84	4.46	4.74	2.47	1.85	1.39	-
Paris	1.65	1.58	3.50	4.20	5.74	5.91	6.26	5.70	4.65	2.62	2.49	1.54	45.84
TEXAS													
Austin WRAP	2.38	2.52	5.10	5.27	7.98	9.29	10.61	9.30	8.03	5.30	4.83	2.37	72.98
Balsorhea WB Dam	1.44	3.20	7.20	6.32	9.84	10.75	9.41	7.98	5.88	5.43	4.42	2.95	74.82
Buchanan Dam	2.10	2.66	5.29	5.45	7.07	9.79	10.90	10.01	7.77	-	5.90	3.07	-
Del Rio WB City	2.06	3.41	5.88	5.18	7.72	10.59	10.66	8.79	8.11	4.82	4.19	2.24	74.46
Denison Dam	-	-	4.66	6.09	7.50	10.26	11.20	9.34	6.79	4.66	4.55	2.29	-
Dilley	2.26	3.34	4.98	5.00	6.96	7.80	10.26	-	-	-	-	-	-
Fort Stockton	2.14	5.03	9.47	7.79	11.60	14.71	13.05	10.21	8.50	6.55	5.87	4.52	99.44
Grandfalls	1.78	4.52	9.61	8.10	-	-	-	-	7.83	6.44	5.21	-	-
Lake Kickapoo	-	-	7.24	7.89	-	12.20	14.28	12.75	8.11	7.68	5.44	3.42	-
Laredo WRAP	3.11	4.48	7.34	7.54	11.00	13.98	14.84	14.98	11.09	7.01	6.02	2.93	104.14
Mansfield Dam	1.70	2.37	4.56	4.88	8.47	9.59	10.47	9.38	8.29	4.79	4.77	2.61	71.88
Weslaco Exp. Sta.	2.41	1.72	3.43	3.71	5.56	-	7.18	6.73	5.40	4.27	-	2.48	-
William Harris Res.	-	-	4.34	4.47	6.99	7.41	7.13	7.89	5.71	4.25	3.86	2.64	-
Ysleta	-	-	9.27	9.35	13.07	14.12	12.34	10.15	8.87	6.91	4.43	2.53	-
UTAH													
Bear River Refuge	-	-	-	-	7.42	8.16	9.74	9.27	6.46	2.87	-	-	-
East Portal	-	-	-	-	-	7.07	7.22	7.16	5.34	-	-	-	-
Ferron	-	-	-	-	-	6.09	6.43	6.76	5.99	5.24	2.48	-	-
Fort Duchesne	-	-	-	6.24	5.88	6.71	7.85	6.77	6.09	-	-	-	-
Green River	-	-	-	-	-	-	12.03	11.30	-	-	-	-	-
Moon Lake	-	-	-	-	-	-	-	7.30	6.31	-	-	-	-
Piute Dam	-	-	-	-	-	-	-	-	-	-	-	-	-
Provo AP	-	-	2.84	6.55	7.34	9.44	9.26	8.55	7.10	3.70	-	-	-
Scofield Dam	-	-	-	-	7.34	8.35	9.36	8.87	5.93	2.76	-	-	-
Utah Lake Lehi	-	-	-	-	-	-	8.37	7.82	5.88	3.47	-	-	-
Vernal AP	-	-	2.88	6.94	7.78	9.21	10.66	9.44	6.92	3.18	1.46	-	-
-	-	-	-	-	-	-	7.22	6.84	5.36	2.95	-	-	-
WASHINGTON													
Bumping Lake	-	-	-	-	-	4.82	5.46	4.95	2.89	-	-	-	-
Lake Kachess	-	-	-	-	-	5.40	6.41	5.65	-	-	-	-	-
Moses Lake Dev. Farm	-	-	-	7.17	10.36	12.59	11.53	7.50	6.19	3.57	-	-	-
Othello SE	-	-	-	6.16	10.22	11.42	12.56	10.47	7.01	3.58	-	-	-
Quincy 48	-	-	-	6.94	11.26	12.87	13.21	11.34	8.16	3.68	-	-	-
Rimrock-Tieton Dam	-	-	-	-	6.93	8.39	9.44	7.82	4.24	-	-	-	-
Seattle-Maple Leaf Res.	-	2.26	1.60	3.19	5.30	5.97	6.19	5.28	4.13	1.35	.74	-	-
Walla Walla 3W Ent Lab	-	-	-	6.13	6.51	8.44	9.51	8.03	4.67	2.74	-	-	-
Wind River	-	-	-	3.58	4.68	6.06	5.92	5.50	3.64	1.26	-	-	-
WEST VIRGINIA													
Clarksburg	-	-	-	3.34	4.19	5.52	5.24	3.80	2.41	1.84	-	-	-
Hogsett-Gallipolis Dam	-	-	-	-	-	6.99	8.34	5.52	4.39	3.06	-	-	-
Wardensville	-	-	-	4.44	4.71	5.98	5.45	4.18	3.22	2.66	-	-	-
WISCONSIN													
Marshfield Exp. Farm	-	-	-	-	-	-	7.79	5.61	3.52	3.06	-	-	-
Rainbow Reservoir	-	-	-	-	5.18	6.42	5.81	4.55	2.33	-	-	-	-
Trempealeau Dam	-	-	-	6.41	7.67	9.21	9.59	8.30	5.78	4.11	-	-	-
WYOMING													
Boysen Dam	-	-	-	-	7.40	9.31	12.22	11.42	7.22	-	-	-	-
Pathfinder Dam	-	-	-	-	5.49	6.87	9.89	10.87	7.48	-	-	-	-
Whalen Dam	-	-	-	-	-	7.66	10.26	9.85	6.33	-	-	-	-

Evaporation measurements are generally made from cylindrical pans, 4 feet in diameter, 10 inches deep, placed on framework laid on the ground, and exposed as far as possible to full sunshine. A

description of equipment and methods of observation appear in Weather Bureau Circular B, "Instructions for Climatological Observers", 10th edition.

